

FIGURE 1A

SEQ ID NO:2	MAEAEAGGAS-EQDDVSIILRTEDMVMCMSCATG-----ERVCLAABGLGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:128	MAEAEAGGAS-EQDDVSFLRTEDMVCCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:130	MAEAEAGGAS-EQDDVSFLRTEDMVCCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:144	MAEAEAGGAS-EQDDVSFLRTEDMVCCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:146	MAEAEAGGAS-EQDDVSFLRTEDMVCCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:4	MADSEGSS--EQDDVSFLRTEDMVCCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:6	MADSEGSS--EQDDVSFLRTEDMVCCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:8	MADSEGSS--EQDDVSFLRTEDMVCCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:10	MAEAEAGGAS-EQDDVSFLRTEDMVCCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:56	MAEAEAGGAS-EQDDVSFLRTEDMVCCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:57	-----DMVCLSCATG-----ERVCLAABGFGNRHCFLENIAAD-KNIPPDLSQCVFVIEQALSVRALQELV
SEQ ID NO:58	MADKEEQGGGEQDDVSFLRTGDIVCLSCVASHNRDGVLSERVCLCTEGFGNRMCTLENVSD-KDIPPDIAAMCMCLYIDNALSMLRALQEMM
SEQ ID NO:59	-MASQDAE----DEVSFLRTGDQNLNLCSS--QS---LGHVLLGAEGFGNRCNVCLEASN-QNVPPDLSICVFVLEQALSVRALQEMV
SEQ ID NO:60	MADAGEGE----DEIQFLRTDDEVVLQCTATIHKE---QQKLCIAAEGFGNRLCFLESTSNKSNVPPDLSICTFVLEQALSVRALQEML
SEQ ID NO:61	MADGGEGE----DEIQFLRTDDEVVLQCTATIHKE---QQKLCIAAEGFGNRLCFLESTSNKSNVPPDLSICTFVLEQALSVRALQEML
SEQ ID NO:62	MADGGEGE----DEIQFLRTDDEVVLQCTATIHKE---QQKLCIAAEGFGNRLCFLESTSNKSNVPPDLSICTFVLEQALSVRALQEML
SEQ ID NO:2	TAAGSETGKE-----NLGKGTGSGYRTHLLYGNAILLRHLNSDMYLACLSTS--SSQDKLAFDVGLQOHSQGEACWWTLHPASKQRSEG
SEQ ID NO:128	TAAGSETG-----KGTGSGHRTLLYGNAILLRHLNSDMYLACLSTS--SSQDKLAFDVGLQOHSQGEACWWTLHPASKQRSEG
SEQ ID NO:130	TAAGSETG-----KGTGSGHRTLLYGNAILLRHLNSDMYLACLSTS--SSQDKPAFDVGLQOHSQGEACWWTLHPASKQRSEG
SEQ ID NO:144	TAAGSETGKE-----NLGKGTGSGHRTLLYGNAILLRHLNSDMYLACLSTS--SSQDKLAFDVGLQOHSQGEACWWTLHPASKQRSEG
SEQ ID NO:146	TAAGSETGKE-----NLGKGTGSGHRTLLYGNAILLRHLNSDMYLACLSTS--SSQDKLAFDVGLQOHSQGEACWWTLHPASKQRSEG
SEQ ID NO:4	TAASSQEG-----KGGTSGHRTLLYGNAILLRHQNSDMYLACLSTS--SSNDKLSFDVGLQOHSQGEACWWTVHPASNQRSEG
SEQ ID NO:6	TATSSQEG-----KGGTSGHRTLLYGNAILLRHQNSDMYLACLSTS--SSNDKLSFDVGLQOHSQGEACWWTVHPASKQRSEG
SEQ ID NO:8	TAAGSEEG-----KG-TGSGHRTLLYGNAILLRHQNSDMYLACLSTS--SSNDKLSFDVGLQOHSQGEACWWTVHPASKQRSEG
SEQ ID NO:10	TAAGSETG-----KGTGSGHRTLLYGNAILLRHHNSDMYLACLSTS--SSNDKLSFDVGLQOHSQGEACWWTVHPASKQRSEG
SEQ ID NO:56	TAAGSETG-----KGTGSGHRTLLYGNAILLRHHNSDMYLACLSTS--SSNDKLSFDVGLQOHSQGEACWWTVHPASKQRSEG
SEQ ID NO:57	TAAGSETG-----KGTGSGHRTLLYGNAILLRHHNSDMYLACLSTS--SSNDKLSFDVGLQOHSQGEACWWTVHPASKQRSEG
SEQ ID NO:58	SADSDHKS-----ASGAGGHKTHLLYGHAVQLKHVQSEMYLACLSSC--SSNDKLAFDVGLQOHSQGEACWWTIHPASKQRSEG
SEQ ID NO:59	ITDQIDQGGQ-----AGHRTLLYGHAMLLQHSLSMHLACLPTS--SSKDKLAFDVGLQOHSQGEACWWTIHPVSKQRSEG
SEQ ID NO:60	ANTVEKSEGQVDVEKWKFMKMTAQGGGHRTHLLYGHAILLRHSYSGMYLCCCLSTSRSSTDKLAFDVGLQOHSQGEACWWTIHPASKQRSEG
SEQ ID NO:61	ANTVEKSEGQVDVEKWKFMKMTAQGGGHRTHLLYGHAILLRHSYSGMYLCCCLSTSRSSTDKLAFDVGLQOHSQGEACWWTIHPASKQRSEG
SEQ ID NO:62	ANTVEKSEGQVDVEKWKFMKMTAQGGGHRTHLLYGHAILLRHSYSGMYLCCCLSTSRSSTDKLAFDVGLQOHSQGEACWWTIHPASKQRSEG

FIGURE 1B

SEQ ID NO: 2	EKVRVGDDLLILSVVAIERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 128	EKVRVGDDLLILSVVATERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 130	EKVRVGDDLLILSVVATERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 144	EKVRVGDDLLILSVVATERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 146	EKVRVGDDLLILSVVATERYLHTTKE--NEVSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 4	EKVPVGDDLLILSVVATERYLHTAKE--NELSVVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 6	EKVRVGDDLLILSVVATERYLHTAKE--NELSVVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 8	EKVRVGDDLLILSVVATERYLHTTKE--NDLSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 10	EKVRVGDDLLIPSVVATERYLHTTKE--NEQSIIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 56	EKVRVGDDLLILSVVATERYLHTTKE--NEQSIIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 57	EKVRVGDDLLILSVVATERYLHTTKE--NDLSIVNASFHVTHWSVQPYGTG-----ISRMKYVGVYVFGGDVLRFFHHG-GDECLTI
SEQ ID NO: 58	EKVRVGDDVILSVVATERYLHMAYS---KGYMVIASFHQTLWNIQSVSSG-----SMRTRNMGFLFGNDVLRFLFHG-NDECLTI
SEQ ID NO: 59	EKVRVGDDLLILVNATERYLHLSVERDDQPMIVVASFQQTLTWTAPVSSGIVKIKAMAKKYGDTEKVLGFLNGLDTRLFRSGHMDLYLTV
SEQ ID NO: 60	EKVRVGDDLLILSVSSERYLHLSYG--NSSWHVDAAFQQTLSVAPISS-----GSEAAQGYLIGGDVLRLLHGHMDECLTV
SEQ ID NO: 61	EKVRVGDDLLILSVSSERYLHLSYG--NGSLHVDAAAFQQTLSVAPISS-----GSEAAQGYLIGGDVLRLLHGHMDECLTV
SEQ ID NO: 62	EKVRVGDDLLILSVSSERYLHLSYG--NGSLHVDAAAFQQTLSVAPISS-----GSEAAQGYLIGGDVLRLLHGHMDECLTV
SEQ ID NO: 2	P-STWTKDGGQNIIVYKGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNDQNELYLVSRREEPTTASCACFLRQEKD
SEQ ID NO: 128	P-STWTKDGGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNDQNELYLVSRREEATTASCACFLRQEKD
SEQ ID NO: 130	P-STWTKDGGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNDQNELYLVSRREEATTASCACFLRQEKD
SEQ ID NO: 144	P-STWTKDGGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNDQNELYLVSRREEATTASCACFLRQEKD
SEQ ID NO: 146	P-STWTKDGGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNDQNELYLVSRREEATTASCACFLRQEKD
SEQ ID NO: 4	P-SSWSNVSGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNNELHLVCREEATTASSTFFFLRQEKD
SEQ ID NO: 6	P-STWSNVSGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNNELHLVCREEATTASSTFFFLRQEKD
SEQ ID NO: 8	P-STWSEAPGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNNELHLVCREEATTASSTFFFLRQEKD
SEQ ID NO: 10	P-STWGREAGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNDNELILVKKEEASLATTFFCLRQEKD
SEQ ID NO: 56	P-STWGREAGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNDNELILVKKEEASLATTFFCLRQEKD
SEQ ID NO: 57	P-STWSLDSGQNIIVYEGGGSVMSQARSMLRLELARTKWAGGFINWYHPMRIRHITTTGRYLGVNNELILMSRDQATTSQTAFVLRLEKD
SEQ ID NO: 58	P-ENWSEHPQHNMIYEGGAAVTQARSMLRVELIRMKWHGALVGEVQVFRIRHITTSGRYLGVLDN-SVQLYHKEKADFDLTAFCVQCQNKD
SEQ ID NO: 59	PPVGCKODDNISEVSYDTGAVQARSMLRAELILKKWNGSVSVSGWPPCIRHITTSGRYLGVLNENGTVCIVPRKSCNLDLDTIFCFQQSRE
SEQ ID NO: 60	P-SGEHGEQRRTVHYEGGAVSVHARSMLRLETLRVAVSGSHIRWGQPPFRLRHVTTGKYLIMEDKNLLMDKEKADVKSATAFRSSKE
SEQ ID NO: 61	P-SGEHGEQRRTVHYEGGAVSVHARSMLRLETLRVAVSGSHIRWGQPPFRLRHVTTGKYLIMEDKNLLMDKEKADVKSATAFRSSKE
SEQ ID NO: 62	P-SGEHGEQRRTVHYEGGAVSVHARSMLRLETLRVAVSGSHIRWGQPPFRLRHVTTGKYLIMEDKNLLMDKEKADVKSATAFRSSKE

FIGURE 1C

SEQ ID NO: 2	DQKVLEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 128	DQKVLEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 130	DQKVLEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 144	DQKVLEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 146	DQKVLEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 4	DQKIILEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 6	DQKIILEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 8	DQKVLEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 10	DEKKVLEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 56	DEKKVLEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 57	DQKVLEDKOLEVIGAPIIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 58	PKQMLDEKEEGMGNAIRYGETNAFIQHVKTQWLSYQTTTEVTKKGLGKVEEKKAVALKDHMDDCYTTFFMALEESKSARVIRKCSS
SEQ ID NO: 59	D-LANYDSKQDHGMGSADIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 60	K-LDVGVRKEVDGMDGTSEIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 61	K-LDVGVRKEVDGMDGTSEIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 62	K-LDVGVRKEVDGMDGTSEIKYGDSTVIVQHSDEGLWLSYKSYETKKKGVGKVEEKQAAILHEEGKMDGDLDSRSQEEEEWTARVIRKCSS
SEQ ID NO: 2	LFTKFINGLETTLQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQNKFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 128	LFTKFINGLETTLQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQNKFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 130	LFTKFINGLETTLQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQNKFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 144	LFTKFINGLETTLQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQNKFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 146	LFTKFINGLETTLQ-ENRRHSMFFASVNLGEMVMCLEDLTNYFAQPDDEMEHEEKQNKFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 4	LFTQFISGLENLQ-SNRRSSLFCSFVNLNEMVMCLEDLTNYFAQPEEDMEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 6	LFTQFISGLENLQ-SNRRSSLFCSFVNLNEMVMCLEDLTNYFAQPEEDMEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 8	LFTQFIRGLETTLQ-VNRRHSLFCATVNLNEMVMCLEDLTNYFAQPADDEMEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 10	LFTQFITALETTLQ-SNRRHSIFQKVNLEVMCLEDLTNYFSQPEDDEMEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 56	LFTQFITALETTLQ-SNRRHSIFQKVNLEVMCLEDLTNYFSQPEDDEMEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 57	LFTKFISGLETTLQ-ENRRHSIFLQTVNLGEMVMCLEDLTNYFAQPEEDMEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 58	VLNKFLKGIDALQLE-GNQSTDWTRVDINEVLKIMEDLIEYFAQPDDEMEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 59	LFNQFFDALDSLGEKEDDLQAWNSFNLSVVDILEDLIEYFGEPEDEDEHEEKQKALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 60	LFNRFIRGLDALS---KKVKLPTIDLPISVSLSLQDLIGYFHPDPDEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 61	LFNRFIRGLDALS---KKAKASSVDLPISVSLSLQDLIGYFHPDPDEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ
SEQ ID NO: 62	LFNRFIRGLDALS---KKAKASTVDLPISVSLSLQDLIGYFHPDPDEHEEKQNRFRALRNQDLFQEEGILNLEAIDKINVTSSQ

FIGURE 1D

SEQ ID NO: 2	GFLAGFLAGDESGQSWEMISGYLYQLLAAI I KGNHTNCAQFANSNRFNWLF SRLGSQASGEGTGMLDVLHCLILDSPEALNMMRDEHIKV
SEQ ID NO: 128	GFLAGFLAGDESGQSWEMISGYLYQLLAAI I KGNHTNCAQFANSNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMRDEHIKV
SEQ ID NO: 130	GFLAGFLAGDESGQSWEMISGYLYQLLAAI I KGNHTNCAQFANSNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMRDEHIKV
SEQ ID NO: 144	GFLAGFLAGDESGQSWEMISGYLYQLLAAI I KGNHTNCAQFANSNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMRDEHIKV
SEQ ID NO: 146	GFLAGFLAGDESGQSWEMISGYLYQLLAAI I KGNHTNCAQFANSNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMRDEHIKV
SEQ ID NO: 4	GFMVS - LAGDESGQSWDVISGYLYQLLAAI I KGNHTNCAQFANTNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMKDEHIKV
SEQ ID NO: 6	GFMVS - LAGDESGQSWDVISGYLYQLLAAI I KGNHTNCAQFANTNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMKDEHIKV
SEQ ID NO: 8	GFLVS - LAGDESGQSWDVISGYLYQLLAAI I KGNHTNCAQFANSNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMRDEHIKV
SEQ ID NO: 10	GFLASFLAGDETGQSWDLISGYLYQLLAAI I KGNHTNCAQFANSNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMRDEHIKV
SEQ ID NO: 56	GFLASFLAGDETGQSWDLISGYLYQLLAAI I KGNHTNCAQFANSNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMRDEHIKV
SEQ ID NO: 57	GFLASFLASDESGQSWDMISGYLYQLLAAI I KGNHTNCAQFANSNRNLNWLFSRLGSQASGEGTGMLDVLHCVLILDSPEALNMMRDEHIKV
SEQ ID NO: 58	PDFAG - LIGEEETHVKWEQISTYLYLVAAAMIKGNHYNCAQFASQRLDWLFGRLSNPQSAEG - I LDVLYCVLTSPALNMMINEGHIRS
SEQ ID NO: 59	RDFAA - IVGEDAGDLWQDIVTYLYKLLAAAMIRHNHNNCALFAQSVRLDWLINRLESQQASKG - VLEVHCVLILSGSPEALNIIKEGHIKS
SEQ ID NO: 60	AHFAD - VAGREAGESWKSILNSLYELLAALIRGNRKNCQAQFSG - SLDWLIISRLERLEASSG - ILEVHCVLILSGSPEALNIIKEGHIKS
SEQ ID NO: 61	AHFAD - VAGREAGESWKSILNSLYELLAALIRGNRKNCQAQFSG - SLDWLIISRLERLEASSG - ILEVHCVLILSGSPEALNIIKEGHIKS
SEQ ID NO: 62	AHFAD - VAGREAGESWKSILNSLYELLAALIRGNRKNCQAQFSG - SLDWLIISRLERLEASSG - ILEVHCVLILSGSPEALNIIKEGHIKS
SEQ ID NO: 2	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVMTMDHIE - KT
SEQ ID NO: 128	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVMTMDHIE - KT
SEQ ID NO: 130	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVMTMDHIE - KT
SEQ ID NO: 144	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVMTMDHIE - KT
SEQ ID NO: 146	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGRVEGSAVYRKWYFEVMTMDHIE - KT
SEQ ID NO: 4	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGHVSGSAVYRKWYFEVAIDHVE - QT
SEQ ID NO: 6	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGHVSGSAVYRKWYFEVAIDHVE - QT
SEQ ID NO: 8	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGHVSGSAVYRKWYFEVAIDHVE - QT
SEQ ID NO: 10	VISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGRVVGSAVYRKWYFEVMTMDHIE - QT
SEQ ID NO: 56	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGRVVGSAVYRKWYFEVMTMDHIE - QT
SEQ ID NO: 57	IIISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNICDYLLPGKNLLLTALVDHVSSVRPNIFVGRVVGSAVYRKWYFEVMTMDHIE - QT
SEQ ID NO: 58	VISLLEKHGRDPKVL DVLCSL CVGNGVAVRSSQNNITQVLLPGKDLTLQTSMDRHHVSSMMPNMLGVVSGALFRKKWYFEAEVEHIE - TM
SEQ ID NO: 59	MISQLEKHGRDPKVL DVLCSL CVGNGVAVRSNQNLICDNLPLSRDLTLQTVAVDEVVCMRPNVSIISVDKNSTVYKKWYFEVAIDKQJ - AG
SEQ ID NO: 60	IIISLLDKHGRNHKVL DVLCSL CVCHGVAVRSNQHLICDNLPLGRDLTLQTRLVNHVSSMRPNIFLGVSEGSAQYKKWYELMVDHTEPFFV
SEQ ID NO: 61	IIISLLDKHGRNHKVL DVLCSL CVCHGVAVRSNQHLICDNLPLGRDLTLQTRLVNHVSSMRPNIFLGVSEGSAQYKKWYELMVDHTEPFFV
SEQ ID NO: 62	IIISLLDKHGRNHKVL DVLCSL CVCHGVAVRSNQHLICDNLPLGRDLTLQTRLVNHVSSMRPNIFLGVSEGSAQYKKWYELMVDHTEPFFV

FIGURE 1E

SEQ ID NO: 2	THMMPHLRIGWANTTGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 128	THMMPHLRIGWANTTGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 130	THMIPHLRIGWANTTGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 144	THMMPHLRIGWANTTGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 146	THMMPHLRIGWANTTGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 4	THLNPHIRIGWANTTGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 6	THLNPHIRIGWANTTGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 8	THMTPHLRIGWANTSGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 10	THMMPHLRIGWANTSGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 56	THMMPHLRIGWANTSGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 57	THMTPHLRIGWANTSGYVYPGGGKKGNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 58	TKQTPYLRIGWANSVGFKPPGSGDKMGCNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 59	TSRPVHFRVGWALTQGFRTYLRGEGWNGSVVDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 60	TAEATHLRVGWASTEGYSYPGGGEEWNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 61	TAEATHLRVGWASTEGYSYPGGGEEWNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 62	TAEATHLRVGWASTEGYSYPGGGEEWNGVGDDLYSYGFDGAYLWSGGRKTPVNRTHAEEPIRKGDVIGCALDLTPVLIINFMFNGVR
SEQ ID NO: 2	VTGSFTNFNLEGMFFFPVISCSSKLSCRFLLGEGHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 128	VTGSFTNFNLEGMFFFPVISCSSKLSCRFLLGEGHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 130	VTGSFTNFNLEGMFFFPVISCSSKLSCRFLLGEGHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 144	VTGSFTNFNLEGMFFFPVISCSSKLSCRFLLGEGHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 146	VTGSFTNFNLEGMFFFPVISCSSKLSCRFLLGEGHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 4	VQGAFRDFNLDGMFFFPVISCSSKVSRCRFLLGEGHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 6	VQGAFRDFNLDGMFFFPVISCSSKVSRCRFLLGEGHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 8	IRGCFRDFNLDGMFFFPVISCSSKLSCRFLLGEGHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 10	VRGSFRDFNLDGMFFFPVMSKLSRFLFGGDHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 56	VRGSFRDFNLDGMFFFPVMSKLSRFLFGGDHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 57	VQGCFTDFNLDGMFFFPVMSKLSRFLFGGDHGRIRYAAPEGYSPLVESLLPQQILSLEP--CFYFGNLSKRALAGP-PLVQDDDTAFV
SEQ ID NO: 58	MSGFKKFNIDGYFFPVMSSLSAKVSRVCAARFILGGKHGRFYKSPKGFSAVCEAVLPEKELKVEHSREYKQERTYTRDILGP-TVSLTQAAFT
SEQ ID NO: 59	IKASFEGINLEGMFFFPVLSFSARVCAARFILGGKHGRFYKSPKGFSAVCEAVLPEKELKVEHSREYKQERTYTRDILGP-TVSLTQAAFT
SEQ ID NO: 60	VQGMFENFIDGLFFFPVVSFAGIKVRFLGGRHGEFFKFLPPPGYAPCYEAVLPEKELKVEHSREYKQERTYTRDILGP-TVSLTQAAFT
SEQ ID NO: 61	VQGMFENFIDGLFFFPVVSFAGIKVRFLGGRHGEFFKFLPPPGYAPCYEAVLPEKELKVEHSREYKQERTYTRDILGP-TVSLTQAAFT
SEQ ID NO: 62	VQGMFENFIDGLFFFPVVSFAGIKVRFLGGRHGEFFKFLPPPGYAPCYEAVLPEKELKVEHSREYKQERTYTRDILGP-TVSLTQAAFT

FIGURE 1F

SEQ ID NO: 2	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 128	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 130	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 144	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 146	PTPVDTLQITLPTYVEQIRDKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 4	PNPVDTSMTLPSYIENIKDKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 6	PNPVDTSMTLPSYIENIKDKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 8	PTPVDTTKVSLEPNYIESIRDKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 10	PKPVDTTGVTLPSSVDQIKEKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 56	PKPVDTTGVTLPSSVDQIKEKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 57	PKPVDTSIVTLPSSVETIKDKLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 58	PTPIDVSAQNLNHHATEHQKYAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 59	PAPVDTSQIVLPPHLERIRERLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 60	PAPVDTSQIVLPPHLERIRERLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 61	PIPVDTSQIVLPPHLERIRERLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 62	PIPVDTSQIVLPPHLERIRERLAENIHEMWAMNKTIEAGWMYGDQREDLHKTHPCLVPFERLPPAEKRYDIQLAVQTLTKTILALGYVISLD
SEQ ID NO: 2	KPPAR--IRNVRLPNEPFPMSNGYKPAPLDLSAVTLTPKMDLVGLAENTHNLWARERIQCGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 128	KPPAR--IRNVRLPNEPFPMSNGYKPAPLDLSAVTLTPKMDLVGLAENTHNLWARERIQCGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 130	KPPAR--IRNVRLPNEPFPMSNGYKPAPLDLSAVTLTPKMDLVGLAENTHNLWARERIQCGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 144	KPPAR--IRNVRLPNEPFPMSNGYKPAPLDLSAVTLTPKMDLVGLAENTHNLWARERIQCGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 146	KPPAR--IRNVRLPNEPFPMSNGYKPAPLDLSAVTLTPKMDLVGLAENTHNLWARERIQCGWTYGLNE--DSDMHRSPHLVPYPKVDD
SEQ ID NO: 4	NPPSR--IKTVRLPNEPFPMSNGYKPAPLDLSAIIISGKMEELIDQLAENTHNLWAKERIQCGWTYGLNE--ELQMLRSPHLVPYSKVDD
SEQ ID NO: 6	NPPSR--IKTVRLPNEPFPMSNGYKPAPLDLSAIIISGKMEELIDQLAENTHNLWAKERIQCGWTYGLNE--ELQMLRSPHLVPYSKVDD
SEQ ID NO: 8	KPPSR--IKTVRLPNEPFPMSNGYKPAPLDLSAIIISGKMEELIDQLAENTHNLWAKERIQCGWTYGLNE--ELQMLRSPHLVPYCKVDE
SEQ ID NO: 10	KPPAR--IRPVRLPNEPFPMSNGYKPAPLDLSAVTLTPKLEELVDQLAENTHNLWARERIQCGWTYGLNE--DSDMLRSPHLVPYAKVDE
SEQ ID NO: 56	KPPAR--IRPVRLPNEPFPMSNGYKPAPLDLSAVTLTPKLEELVDQLAENTHNLWARERIQCGWTYGLNE--DSDMLRSPHLVPYAKVDE
SEQ ID NO: 57	KPPAR--IRPVRLPNEPFPMSNGYKPAPLDLSAVTLTPKLEELVDQLAENTHNLWARERIQCGWTYGLNE--DSDMLRSPHLVPYAKVDE
SEQ ID NO: 58	KPPAR--IRPVRLPNEPFPMSNGYKPAPLDLSAVTLTPKLEELVDQLAENTHNLWARERIQCGWTYGLNE--DSDMLRSPHLVPYAKVDE
SEQ ID NO: 59	DETSKSTLKRLLPMMN--YLMNSNGYKPAPLDLSAIIISGKMEELIDQLAENTHNLWAKERIQCGWTYGLNE--DSDMLRSPHLVPYAKVDE
SEQ ID NO: 60	DEHAEEKVKMKLPKN--YQLTSYKPAPLDLSAIIISGKMEELIDQLAENTHNLWAKERIQCGWTYGLNE--DSDMLRSPHLVPYAKVDE
SEQ ID NO: 61	DEHAEEKVKMKLPKN--YQLTSYKPAPLDLSAIIISGKMEELIDQLAENTHNLWAKERIQCGWTYGLNE--DSDMLRSPHLVPYAKVDE
SEQ ID NO: 62	DEHAEDKVKMKLPKN--YQLTSYKPAPLDLSAIIISGKMEELIDQLAENTHNLWAKERIQCGWTYGLNE--DSDMLRSPHLVPYAKVDE

FIGURE 1C

SEQ ID NO: 2	AIKKANRDTASETVRTLIVGYMIDPPPTGEQHEA-----LLLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 128	AIKKANRDTASETVRTLIVGYMIDPPPTGEQHEA-----LLLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 130	AIKKANRDTASETVRTLIVGYMIDPPPTGEQHEA-----LLLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 144	AIKKANRDTASETVRTLIVGYMIDPPPTGEQHEA-----LLLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 146	AIKKANRDTASETVRTLIVGYMIDPPPTGEQHEA-----LLLEASKQKQADFRTRYAEKNYAVSSGKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 4	AIKKANRDTASETVRTLIVGYMIDPPPTGETNEAT-----LLTDDNSNRILTFRTYAEKTYAVSSGKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 6	AIKKANRDTASETVRTLIVGYMIDPPPTGETNEAT-----LLTDENTNRILTFRTYAEKTYAVSSGKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 8	AIKKANRDTASETVRTLIVGYMIDPPPTGEAHEA-----LLAEASRLRQTHFRTRYAEKNYAVTTCKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 10	AIKKANRDTASETVRTLIVGYMIDPPPTGEQHEA-----LLAEAQRLKFAFRTRYVERNYAVTSCKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 56	AIKKANRDTASETVRTLIVGYMIDPPPTGEQHEA-----LLAEAQRLKFAFRTRYVERNYAVTSCKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 57	AIKKANRDTASETVRTLIVGYMIDPPPTGEAHEA-----LAAEALRQKFAFRTRYVERNYAVTSCKWYFEFEILTAGPMRVGWAHADMAP
SEQ ID NO: 58	RIKQANRESAAENIRALQLFIFLEPPAHEHDEV-----AEKELARKONTRTRYAEATYAVCGGKWYFEFEILTAGYMKIGWMDIGSTP
SEQ ID NO: 59	QAKKLNRTDASETIRTLGFGYALEPPTNEGQSDPSFRGLAREISDKKSHTRTFRAEKSYAVKSGRWYFEFEAMTTGYMRVWGWRPTIAA
SEQ ID NO: 60	RTKSNKDSLREAVRTLIGYGHLEAPDQDHAAR-----AEVCSGTGERFRIFRAEKTYAVKAGRWYFEFEAVTAGDMRVGWSRPGCQP
SEQ ID NO: 61	RTKSNKDSLREAVRTLIGYGHLEAPDQDHAAR-----AEVCSGTGERFRIFRAEKTYAVKAGRWYFEFEAVTAGDMRVGWSRPGCQP
SEQ ID NO: 62	RTKSNKDSLREAVRTLIGYGHLEAPDQDHAAR-----AEVCSGTGERFRIFRAEKTYAVKAGRWYFEFEITVAGDMRVGWSRPGCQP
SEQ ID NO: 2	GMMLGQDENSWAFFDGYNEEKVYSGNTESFGKQWAVGVFLDLIDKTI SFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 128	GMMLGQDENSWAFFDGYNEEKVYSGNTESFGKQWAVGVFLDLIDKTI SFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 130	GMMLGQDENSWAFFDGYNEEKVYSGNTESFGKQWAVGVFLDLIDKTI SFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 144	GMMLGQDENSWAFFDGYNEEKVYSGNTESFGKQWAVGVFLDLIDKTI SFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 146	GMMLGQDENSWAFFDGYNEEKVYSGNTESFGKQWAVGVFLDLIDKTI SFSLNGELLMDALGGETTFADVQGDN--FVPACTLGVGQK
SEQ ID NO: 4	GYQIGSDENSWAFFDGYNEEKIYMGTAESFGRQWQVGVFLDLMDHTISFSMNGELLMDTLGGETTFSEVQCEG--FVPAFTLGLGQK
SEQ ID NO: 6	GYQIGSDENSWAFFDGYNEEKIYMGTAESFGRQWQVGVFLDLMDHTISFSMNGELLMDTLGGETTFSEVQCEG--FVPAFTLGLGQK
SEQ ID NO: 8	GSQLGNDSEYSWAFDGFNEEKVYLGTESEFGRQWQVGVFLDLMDHTISFSMNGELLMDTLGGETTFSEVQCEG--FVPAFTLGLGQK
SEQ ID NO: 10	GAMLGSEDTSWAFDGHNVTKMHAGSIEHPGVRYEAGDVIGCFIDVKEQTI SFSLNGELLMDALGGETTFADVQGES--FVPAFTLGVGQK
SEQ ID NO: 56	GAMLGSEDTSWAFDGHNEEKVYGVVSESGKQCGPGDIVGVFLDLADHTISFSLNGELLMDALGGETTFADVTAEGVGFVPAFTLGVGQK
SEQ ID NO: 57	GTMLGSDDASWAFFDGYN-----IGQK
SEQ ID NO: 58	EIQLGADDRSYAFDGYLGRKWHQK--AETVKEWKIGIDVVGCFDLNDRTISFSLNGELLMDPSGSEMAFDNVVCGDG-LVPAMTLGSGQR
SEQ ID NO: 59	RSEVGTDCGSFAFDGFLARKWHQGS--ETFGKTWGEDMVGICMLNLVDNTISFTMNGEYLCDPSGSEMAFHDIEIGEG-FVPVCMLAAGEK
SEQ ID NO: 60	DLELGSDDRAFADGFGKARWHQGN--EHYGRSWQAGDVVGCMVDMNEHTMTMTLNGEILDDSGSELAFKDFDVGDG-FIPVCSLGVQV
SEQ ID NO: 61	DQELGSDERAFADGFGKARWHQGN--EHYGRSWQAGDVVGCMVDMNEHTMTMTLNGEILDDSGSELAFKDFDVGDG-FIPVCSLGVQV
SEQ ID NO: 62	DQELGSDERAFADGFGKARWHQGN--EHYGRSWQAGDVVGCMVDMNEHTMTMTLNGEILDDSGSELAFKDFDVGDG-FIPVCSLGVQV

FIGURE 1H

SEQ ID NO: 2	ARLTGQDVNTLKYFTTCGLQEGYEPFCVNMKRDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 128	ARLTGQDVNTLKYFTTCGLQEGYEPFCVNMKRDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 130	ARLTGQDVNTLKYFTTCGLQEGYEPFCVNMKRDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 144	ARLTGQDVNTLKYFTTCGLQEGYEPFCVNMKRDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 146	ARLTGQDVNTLKYFTTCGLQEGYEPFCVNMKRDVTHWYTKDQPIFENTDEMID-TRIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 4	AKLTFGQDVNSLKYFTTCGLQEGYEPFCVNMKRPVAYWYTKDQPIFENTDDFS--SVIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 6	AKLTFGQDVNSLKYFTTCGLQEGYEPFCVNMKRPVAYWYTKDQPIFENTDDFS--SVIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 8	AKLTFGQDVNTLVKFFTTTCGLQEGYEPFCVNMNRVAVYWYTKDHPFENTEDYAD-SRIDVTRIPAGSDTPPCLKISHNLFE-----SMEKA
SEQ ID NO: 10	ARLIYGQDVDSLKFFTTCGLQEGYEPFCVNMRRPVTHWYTKDQPIFENTEEMPD-CRIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 56	ARLIYGQDVDSLKFFTTCGLQEGYEPFCVNMRRPVTHWYTKDQPIFENTEEMPD-CRIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 57	ARVYGGQDVDSLKWFTTCGLQEGYEPFCVNMKRPVTHWYTKDQPIFENTDEIPE-CKIDVTRIPAGSDTPPCLKISHNTFE-----TMEKA
SEQ ID NO: 58	GRNFGQQSNLSLKFFTTCGLQEGYEPFCVNMVYRTPMWFAKHFPREFEDISTLKSGSILEVSRIPATGNSPPCLKILQKVTISEGGPSEKA
SEQ ID NO: 59	AHLHFGQDVNDLKYFTVCGLQEGYEPFCVNMKSMPLWYSKSPMFQSIIEDEH--DRLGTRIPAGIEGPPCLKVSHKCG-----TVENL
SEQ ID NO: 60	GRMFGKDVSTLKYFTICGLQEGYEPFAVNTNRDITMWLSKRLPQLQVPSNH--EHIEVTRIDGTIDSSPCLKVTKSFGS---QNNNT
SEQ ID NO: 61	GRMFGKDVSTLKYFTICGLQEGYEPFAVNTNRDITMWLSKRLPQLQVPSNH--EHIEVTRIDGTIDSSPCLKVTKSFGS---QNSNT
SEQ ID NO: 62	GRMFGKDVSTLKYFTICGLQEGYEPFAVNTNRDITMWLSKRLPQLQVPSNH--EHIEVTRIDGTIDSSPCLKVTKSFGS---QNSNT
SEQ ID NO: 2	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMS-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 128	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 130	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 144	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 146	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 4	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 6	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 8	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 10	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 56	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 57	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 58	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 59	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 60	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 61	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 62	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 2	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMS-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 128	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 130	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 144	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 146	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIDQIMRSGFTWMDIKGLHYE-DNQEE
SEQ ID NO: 4	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 6	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 8	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 10	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 56	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 57	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 58	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 59	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 60	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 61	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV
SEQ ID NO: 62	NWEFLRLSLPVIChNEFIDEAEKARRWVEIKDRQILMK-----EAVEAQMP-----AHIERIMKSGFSMSDIKGLHRGYSDDPV

FIGURE 1I

SEQ ID NO:2	LPSSKMK-----RLP--SRPPRK--GSMTRGVTIQNNLQPGQVNGMHRSTSEAEWAKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO:128	LPSSKMK-----RLP--SRPPRK--GSMTRGVTIQNNLQPGQVNGMHRSTSEAEWAKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO:130	LPSSKMK-----RLP--SRPPRK--GSMTRGVTIQNNLQPGQVNGMHRSTSEAEWAKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO:144	LPSSKMK-----RLP--SRPPRK--GSMTRGVTIQNNLQPGQVNGMHRSTSEAEWAKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO:146	LPSSKMK-----RLP--SRPPRK--GSMTR--GQVNGMHRSTSEAEWAKYDLGAQGLTP-D-DKKDKRGRSPFK
SEQ ID NO:4	ENDEIMPNTAPLPPRGKNQPPPPRPKRK-----GSLSRHDDLTIEN-----DGKLNRSSELNFIYNHQNGDQDINKODKKRGRSPFR
SEQ ID NO:6	ENDEMPNTAPLPPRGKNQPPPPRPKRK-----GSLSRHDDLTIEN-----DGKLNRSSELNFIYNHQNGNGQDINKODKKRGRSPFR
SEQ ID NO:8	EADMMMQSTPTTKSKMRQP--SRPPRK--GSLSRNEDMPING--SLEQSKMNRSTSELDLNRYNADLQN----DKODKKRGRSPFR
SEQ ID NO:10	AEADHMM-----RGP--NRPPRK--GSLTRN-----ITFETMSAALDEMQRSTSVLDMNGLGE-EMDDKKRGRSPFK
SEQ ID NO:56	AEADHMM-----RGP--NRPPRK--GSLTRN-----ITFETMSAALDEMQRSTSVLDMNGLGE-EMDDKKRGRSPFK
SEQ ID NO:57	EADMMR-----NGP--RRPSRHQGRGLSP-----PGIEINGEATSDGELNAYSDELGG-----DDRKKRGRSPFR
SEQ ID NO:58	RTNSKQPSVDG-----DEP--PAVPRS-----LLELP-----HD-ERQIAEDSWRDLNDRHSEKPKKGLLSRLRDSSTNTRKNFR
SEQ ID NO:59	RVNGYNGDTK-----ELT--KKEKKK--LASLP-----LGRKIPMSRAASSETSTVQSPDSSF--ERSGSPSPAKSKSKFT
SEQ ID NO:60	EFNNHKDYAQ-----EKP--SRLKQR-----FLLR-----RTKPDYSTGHSARLT
SEQ ID NO:61	EFNNHKDYAQ-----EKP--SRLKQR-----FLLR-----RTKPDYSTGHSARLT
SEQ ID NO:62	EFNNHKDYAQ-----EKP--SRLKQR-----FLLR-----RTKPDYSTGHSARLT
SEQ ID NO:2	FFRSK---RGESSDRAKSRKSKTDPDPFSDTEVSPERGA---RRPNPQIKVSQANQR-YNGMNAARPSRTNLYGSQVGLNSNAQMATPTQD
SEQ ID NO:128	FFRSK---RGESSDRAKSRKSKTDPDPFSDTEVSPERGA---RRPNPQIKVSQANQR-YNGMNAARPSRTNLYGSQVGLN---MATPTQD
SEQ ID NO:130	FFRSK---RGESSDRAKSRKSKTDPDPFSDTEVSPERGA---RRPNPQIKVSQANQR-YNGMNAARPSRTNLYGSQVGLN---MATPTQD
SEQ ID NO:144	FFRSK---RGESSDRAKSRKSKTDPDPFSDTEVSPERGA---RRPNPQIKVSQANQR-YNGMNAARPSRTNLYGSQVGLNSNAQMATPTQD
SEQ ID NO:146	FFRSK---RGESSDRAKSRKSKTDPDPFSDTEVSPERGA---RRPNPQIKVSQS-----N-AQ-----MATPTQD
SEQ ID NO:4	FFSRK---KEGSDNPKRAKTPDPARNVDRPRNAHREPTLNERTVTPQIRVSQMDLK-LVPPAIPDR-----PGG
SEQ ID NO:6	FFSRK---KEGSDNPKRAKTPDPARNVDRPRNAHREPTLNERTVTPQIRVSQMDLK-LVPPAIPDR-----PGG
SEQ ID NO:8	FFSRK---REASNERSKKAKSPFNPMMEADRGQMGRS-QHHMMRTPTVKVTAPDMK-VIPPTIPER-----SNM
SEQ ID NO:10	FFSKKS--RDQREKMGARTLDTSLERRNTVA---HGR---NVVNQQMTTAPTILR-LNNAEIPPS-----PVPQG
SEQ ID NO:56	FFSKKS--RDQREKMGARTLDTSLERRNTVA---HGR---NVVNQQMTTAPTILR-LNNAEIPPS-----PVPQG
SEQ ID NO:57	LFGKK---RDQSKDKLDRRTPEPEPRKS-----NLKVTQRQATR-MSNSDLR-----AQA
SEQ ID NO:58	DSDRKKEKAAQLRQMKANSRSDAGSLDTSTLPTQK---DVLASSEMPLSGPGRQLTIKRSSIKKNKK-----GKKAELIA
SEQ ID NO:59	KSSMDSGAKHPEDTLAKPTGYEVDGQSRPGAARRGKK--HDLRLTPEASPPGTLTREYIPLKSDNEGSV-----GSDNHGR
SEQ ID NO:60	-----EDVLG-----
SEQ ID NO:61	-----EDVLAD-----
SEQ ID NO:62	-----EDVLAD-----

FIGURE 1J

SEQ ID NO:2	RKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHMYIGVTTQYHLHLSKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO:128	RKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO:130	RKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO:144	RKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO:146	RKQMTTSTLAQ-----SATETVGN-EIFDAECLKLINEFYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VTKSSVIIITDDYDR
SEQ ID NO:4	PKAMSFPTPS-----AGIEFVGN-EIFDLECLKLINEYYYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VRKSTVTIVDEHNR
SEQ ID NO:6	PKAMSFPTPS-----AGIEFVGN-EIFDLECLKLINEYYYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VRKSTVTIVDEHNR
SEQ ID NO:8	PKQMTGAPLSG-----SGIESVGN-EIFDGECLKLINEFYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VRKSTVTIVDEHNR
SEQ ID NO:10	PKQLSGSNLQ-----QPVETSGD-EMFDAECLKLINEFYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VRRGSVYIEDDYEM
SEQ ID NO:56	PKQLSGSNLQ-----QPVETSGD-EMFDAECLKLINEFYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VRRGSVYIEDDYEM
SEQ ID NO:57	PLTPERKGMGS-----PQVESFGN-EVYDADCLRLINEFYGVRIYPGQDPTHVYIGVTTQYHLHLSKDFNQSK-VRHAAYIVEDENEK
SEQ ID NO:58	LEKWEREKKSIIIPMDAQLDVLQEGDAHALVHHKQVDEYYYGIRIYPGQDPSPQVWVGVTTQYHYNNVNFDSQSGVRCRFSADHHGT
SEQ ID NO:59	PRLAKLVSMGSSFDVFSKSIDIMSDISEADSIDLMMTKFYYSVRIYPGQDPDTHVYIGVTTQYHYNNVNFDSQSGVRCRFSADHHGT
SEQ ID NO:60	-----DRDDYELMQTSTYYYSVRIYPGQEPANVWVGVTTQYHLHLSKDFNQSK-VRTVTVTILGDEKSK
SEQ ID NO:61	-----DRDDYDFLMQSTYYYSVRIYPGQEPANVWVGVTTQYHLHLSKDFNQSK-VRTVTVTILGDEKSK
SEQ ID NO:62	-----DRDDYDFLMQSTYYYSVRIYPGQEPANVWVGVTTQYHLHLSKDFNQSK-VRTVTVTILGDEKSK
SEQ ID NO:2	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGSVDTSTGVSFTCEGKDTSFVKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO:128	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGSVDTSTGVSFTCEGKDTSFVKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO:130	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGSVDTSTGVSFTCEGKDTSFVKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO:144	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGSVDTSTGVSFTCEGKDTSFVKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO:146	VVENVNRQSCYMVRADELYNEVMAEATAKASQGMFIGSVDTSTGVSFTCEGKDTSFVKMEPETKLPFAISVEATSKELQIELGR-
SEQ ID NO:4	ILESIDRQSCYMVRSDELYNEVNTDSSGKAASQGMFIGCFID IATGLMSFTCEGKETSFKFKMEPD IKLPFAIFVEASSKEILQIELGR-
SEQ ID NO:6	ILESIDRQSCYMVRSDELYNEVNTDSSGKAASQGMFIGCFID IATGLMSFTCEGKETSFKFKMEPD IKLPFAIFVEASSKEILQIELGR-
SEQ ID NO:8	VNESIDRQSCYMVRSDELYNEVNTDSSGKAASQGMFIGCFID IATGLMSFTCEGKETSFKFKMEPD IKLPFAIFVEASSKEILQIELGR-
SEQ ID NO:10	ATIERIDRQSCYVVRADELFNEVTQDASGKASQGMFIGCFVDTATGIIRFTCEGKDTSHRWMMEPD IKLPFAIFVEATSKELQIELGR-
SEQ ID NO:56	ATIERIDRQSCYVVRADELFNEVTQDASGKASQGMFIGCFVDTATGIIRFTCEGKDTSHRWMMEPD IKLPFAIFVEATSKELQIELGR-
SEQ ID NO:57	TIEIVNRQSCYMVRADELFNEVTQDSSGKAASQGMFIGCFVDTATGIIRFTCEGKETSFKFKMEPD IKLPFAIFVEATSKELQIELGR-
SEQ ID NO:58	TVDSVQSQNCYMNVSSELLATT--PDVANTKVSGLIICLIDTSIGELSFQVGSDDTGIKFKLEPGAMLPFAAFVTPPTATEILQIELGR-
SEQ ID NO:59	VQESSKRDCFTVCVGDHMDLLI--TPEGRRISGLVGVGVDAACNGELYFTINGRDISITKYQVEPKLPFAVFKVPTSKEMIQFELGRS
SEQ ID NO:60	VHESIKRSNCYMVCAGESMS----PGQGRNNNGLEIGCVVDAASGLLFTIANGKELSTYYYQVEPSTKLPFAVFAQATSPNVFQFELGR-
SEQ ID NO:61	VHESIKRSNCYMVCAGESMS----PGQGRNN--NGLEIGCVVDAASGLLFTIANGKELSTYYYQVEPSTKLPFAVFAQATSPNVFQFELGR-
SEQ ID NO:62	VHESIKRSNCYMVCAGESMS----PGQGRNN--NGLEIGCVVDAASGLLFTIANGKELSTYYYQVEPSTKLPFAVFAQATSPNVFQFELGR-

FIGURE 1L

SEQ ID NO: 2	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPFLEVVRREF
SEQ ID NO: 128	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPFLEVVRREF
SEQ ID NO: 130	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPFLEVVRREF
SEQ ID NO: 144	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPFLEVVRREF
SEQ ID NO: 146	CKNEFVPLGPELKALYEEDMG--HSLR-----SLQTESVRPQMKMTDIA-----ESITEISNLYSPYFPFLEVVRREF
SEQ ID NO: 4	CKXEYIIPLGHELTLYDDPQMG--HSLR-----SLQTESVRPQMKMTDIA-----VIDNVRNLYSPYFPFLEVVRREF
SEQ ID NO: 6	CKNEYIIPLGHELTALYDDPQMG--HSLR-----SLQTESVRPQMKMTDIA-----VIDNVRNLYSPYFPFLEVVRREF
SEQ ID NO: 8	CKNEFIIPGQELKDVYEDPMC--HSLR-----SLKTESVLPQMKMTDIA-----PSEVVDNIRSLYSPQFPFLDVVRDF
SEQ ID NO: 10	CKNEYITPLGAELEKELYSDEEMQ--HSLR-----SLVATESVRPQMRMTDIA-----EPIPDIDQLYSPKFPFLEVVRQF
SEQ ID NO: 56	CKNEYITPLGAELEKELYSDEEMQ--HSLR-----SLVATESVRPQMRMTDIA-----EPIPDIDQLYSPKFPFLEVVRQF
SEQ ID NO: 57	CKNEYIIPLGSELRELYIDPMC--HSLR-----SLQTLVSRPEMNMTEIAPTQSQNMPTIVAPDSSEPIPAIDSLYSPRFPFLEVVRREF
SEQ ID NO: 58	MAKEYVPLVPQLQIKNVLPDS--ESRYPQITGESVMSLSQMASEPVK-----KHVSREDEMCKLLPPSVDFEALKKH
SEQ ID NO: 59	TQDEFIIPLMAGPKPVDEELD ISSMSIKRALSTTKSVSRPQLNIGPSAD--S-----SHQSFQSMKASEQAPPGFNMVILKQH
SEQ ID NO: 60	MNNEFIVPMTEETKSIITLFPDENKKHGLP--GIGLSTSLRPRMRF-----SSPSFVSIISNDYQYSPFEPFLDILKAK
SEQ ID NO: 61	MNNEFIVPMTEETKSIITLFPDENKKHGLP--GIGLSTSLRPRMRF-----SSPSFVSIISNDYQYSPFEPFLDILKAK
SEQ ID NO: 62	MNNEFIVPMTEETKSIITLFPDENKKHGLP--GIGLSTSLRPRMRF-----SSPSFVSIISNDYQYSPFEPFLDILKAK
SEQ ID NO: 2	VMQALAEAVETNQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----S
SEQ ID NO: 128	VMQALAEAVETNQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----S
SEQ ID NO: 130	VMQALAEAVETNQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----S
SEQ ID NO: 144	VMQALAEAVETNQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----S
SEQ ID NO: 146	VMQALAEAVETNQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----S
SEQ ID NO: 4	VMAALEAVLVNQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----E
SEQ ID NO: 6	VMAALEAVLVNQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----E
SEQ ID NO: 8	VMAALDEAVQINQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----A
SEQ ID NO: 10	VMEALKDAVEINQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----A
SEQ ID NO: 56	VMEALKDAVEINQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----A
SEQ ID NO: 57	VMSALQEAQVQINQVHNWDPVGGSNENLFLPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----S
SEQ ID NO: 58	VMSLSQATHAVMNCRDLLIGDNTNHFEPFLFKLFDQLLVIGLINDDELECLRLIHPQAFD-----
SEQ ID NO: 59	VISSLGEAVAHGVSHCRDPIGGNENLFLVPLLELDCALLVIGEFDDDDLLKSLLLIDPATF-----D
SEQ ID NO: 60	TIQMLTEAVKEGSLHARDPVGGTTEFLFVPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----GE
SEQ ID NO: 61	TIQMLTEAVKEGSLHARDPVGGTTEFLFVPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----GE
SEQ ID NO: 62	TIQMLTEAVKEGSLHARDPVGGTTEFLFVPLIKLVDRLLLVGMWRDEDEVEKLLIMTNPETWDP-----GE

FIGURE 1M

SEQ ID NO: 2	FDKEGDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEATIAFAHDFVGDQTDQLRRYTEIKQ--SDLPSAVAAAKKTREFRCP
SEQ ID NO: 128	FDKEGDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEAIIAFAHDFVGDQTDQLRRYTEIKQ--SDLPSAVAAAKKTREFRCP
SEQ ID NO: 130	FDKEGDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEAIIAFAHDFVGDQTDQLRRYTEIKQ--SDLPSAVAAAKKTREFRCP
SEQ ID NO: 144	FDKGGDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEAIIAFAHDFVGDQTDQLRRYTEIKQ--SDLPSAVAAAKKTREFRCP
SEQ ID NO: 146	FDKEGDEHRKGLLHMKMAEGAKLQMCYLLQHLNDIQLRHRVEAIIAFAHDFVGDQTDQLRRYTEIKQ--SDLPSAVAAAKKTREFRCP
SEQ ID NO: 4	FQKDGPDHRKGLLHMKMAEGAKLQMCYLLHLLCDIQLRHRVESIIISFSYQFVNDIQIDQLRRYNEIKQ--SDLPSAVAAAKKTREFRCP
SEQ ID NO: 6	FQKDGPDHRKGLLHMKMAEGAKLQMCYLLHLLCDIQLRHRVESIIISFSYQFVNDIQIDQLRRYNEIKQ--SDLPSAVAAAKKTREFRCP
SEQ ID NO: 8	FEKDGDEHRKGLLTMKMAEGAKLQMCYLLHLLYDIQLRRHVEAIISFSVDFVGDQSDQLRRYTEIKQ--SDLPSAIAAAKKTREFRCP
SEQ ID NO: 10	FEREGDEHRKGLLTMKMAEGAKLQMCYLLHLLYDTQLRRHVESIIAFSHDFVGDQTDQLRRYTEIKQ--SDLPSAVAAAKKTREFRCP
SEQ ID NO: 56	FEREGDEHRKGLLTMKMAEGAKLQMCYLLHLLYDTQLRRHVESIIAFSHDFVGDQTDQLRRYTEIKQ--SDLPSAVAAAKKTREFRCP
SEQ ID NO: 57	FEKEGDEHRKGLLTMKMAEGAKLQMCYLLHLLYDVQLRRHVESIIAFAHNYVGDQSDQCKRYMEIKQ--TDMPPAEEAAKKTREFRCP
SEQ ID NO: 58	-ENYETGTTQKGLTQLELAEPVKIQLVSIIDHLCDIQLRHVESIIAFTEGTFVGELOSDQCKRYMEIKQ--TDMPPAEEAAKKTREFRCP
SEQ ID NO: 59	ETYYKGVSETVGMLOMHLDEPVKIAMCFLLQHLCDISQLRRHVESIIISFSDDFVAKIQDNQFRYNEVMQALNMSAALTARKTKBFRSP
SEQ ID NO: 60	EEAKGKRPKEGILLQMKLPEPVKIQMCLLLQYLCDQCVRHRIEAIIVAFSDDDFVAKIQDNQFRYNEVMQALNMSAALTARKTKBFRSP
SEQ ID NO: 61	EEAKGKRPKEGILLQMKLPEPVKIQMCLLLQYLCDQCVRHRIEAIIVAFSDDDFVAKIQDNQFRYNEVMQALNMSAALTARKTKBFRSP
SEQ ID NO: 62	EEAKGKRPKEGILLQMKLPEPVKIQMCLLLQYLCDQCVRHRIEAIIVAFSDDDFVAKIQDNQFRYNEVMQALNMSAALTARKTKBFRSP
SEQ ID NO: 2	EQMNVILSFKHLEE-----EDKENCPCGGEELIARMNEFHDITLMAHVSILHALQEPDAAENQEP--AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 128	EQMNAILSFKHLEE-----EDKENCPCGGEELIARMNEFHDITLMAHVSILHALQEPDAAENQEP--AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 130	EQMNAILSFKHLEE-----EDKENCPCGGEELIARMNEFHDITLMAHVSILHALQEPDAAENQEP--AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 144	EQMNAILSFKHLEE-----EDKENCPCGGEELIARMNEFHDITLMAHVSILHALQEPDAAENQEP--AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 146	EQMNAILSFKHLEE-----EDKENCPCGGEELIARMNEFHDITLMAHVSILHALQEPDAAENQEP--AKPGAFGKLYNIINTVKELEEE
SEQ ID NO: 4	EQMNAILGFKNLDI-----DDKENCILIGDELRRMNEFNERLMKQISLVALQESDDKSDLNINKEGKIQOFYNFINAVKDEANE
SEQ ID NO: 6	EQMNAILGFKNLDI-----DDKENCILIGDELRRMNEFNERLMKQISLVALQESDDKSDLNINKEGKIQOFYNFINAVKDEANE
SEQ ID NO: 8	EQMNAILGFKNLEE-----GDIENCPCGDELRRINLSFHEKLMHKVSLALQEPSEEEASAEVKKPNALNRLYNFINAVKLEET
SEQ ID NO: 10	EQMNQILCFKNLEP-----DDQDNCTCGLELRGLGDFHDSLMQKVSINALQEPDGVGEVGTAEHVKTGPIITKIYNFINAVKLEEG
SEQ ID NO: 56	EQMNQILCFKNLEP-----DDQDNCTCGLELRGLGDFHDSLMQKVSINALQEPDGVGEVGTAEHVKTGPIITKIYNFINAVKLEEG
SEQ ID NO: 57	EQMNAILGYKNLEE-----DDLNASCGPELRNRIEFHEKLMGKVSINALQEPPEPEADKLEGRPGAMKLYNFINAVKLEED
SEQ ID NO: 58	EQMFRLLMCKVKEERDPELMEEDADVDCPMAEGILQQQLRDFCELLVGKIGNVKEGSDDDQALALISEEG----SWVDSFARIVVVP
SEQ ID NO: 59	EQMRMLLHFQDG-----DDGMCPCREDLRSVLLEFSTLAKHCVHETQE-EKSTDSGVIR-----RFLSWLSGSR--KDA
SEQ ID NO: 60	EQINMLLNFKD-----DKSECPCEPTRDQLDDFHEDLMTHCGFELDEGSLDGSNDLTIRG-----RLLSLVEKVTYLLKKK
SEQ ID NO: 61	EQINMLLNFKD-----DKSECPCEPTRDQLDDFHEDLMTHCGFELDEGSLDGSNDLTIRG-----RLLSLVEKVTYLLKKK
SEQ ID NO: 62	EQINMLLNFKD-----DKSECPCEPTRDQLDDFHEDLMTHCGFELDEGSLDGSNDLTIRG-----RLLSLVEKVTYLLKKK

FIGURE 1N

SEQ ID NO: 2	AKAIEPPKKTPEKFRKVL	QTIIVNWAESQIETPKLV	REMFSLVRQYDA	VGELIRALEKTYVINAKTKLD	VAEMWVGLSQIRALLPV	
SEQ ID NO: 128	AKAIEPPKKTPEKFRKVL	QTIIVNWAESQIETPKLV	REMFSLVRQYDA	VGELIRALEKTYVINAKTKLD	VAEMWVGLSQIRALLPV	
SEQ ID NO: 130	AKAIEPPKKTPEKFRKVL	QTIIVNWAESQIETPKLV	REMFSLVRQYDA	VGELIRALEKTYVINAKTKLD	VAGMWVGLSQIRALLPV	
SEQ ID NO: 144	AKAIEPPKKTPEKFRKVL	QTIIVNWAESQIETPKLV	REMFSLVRQYDA	VGELIRALEKTYVINAKTKLD	VAEMWVGLSQIRALLPV	
SEQ ID NO: 146	AKAIEPPKKTPEKFRKVL	QTIIVNWAESQIETPKLV	REMFSLVRQYDA	VGELIRALEKTYVINAKTKLD	VAEMWVGLSQIRALLPV	
SEQ ID NO: 4	DGLN - EHEKKIPEE	IFRKVL	ISTIVSWAETQIETPKLV	REMFSLVRQYDS	VGELIRALEKTYVINAKTKED	VAQMWVGLSQIRSLLPV
SEQ ID NO: 6	NGLN - EHEKKIPEE	IFRKVL	ISTIVSWAETQIETPKLV	REMFSLVRQYDS	VGELIRALEKTYVINAKTKED	VAQMWVGLSQIRSLLPV
SEQ ID NO: 8	PQIEEPEKKTPEE	IFRKVL	ISTIVSWAETQIETPKLV	REMFSLVRQYDT	VGELIRALGKTYVINAKTKDDA	ALMWVGLSQIRALLPV
SEQ ID NO: 10	PKEVEEPEKKTPEE	IFRKVL	ISTIVSWAESQIENPKLV	REMFSLLRQYDT	VGELIRALEKTYVINAKTKDDA	ALMWVGLSQIRALLPV
SEQ ID NO: 56	PKEVEEPEKKTPEE	IFRKVL	ISTIVSWAESQIENPKLV	REMFSLLRQYDT	VGELIRALEKTYVINAKTKDDA	ALMWVGLSQIRALLPV
SEQ ID NO: 57	PKEVEEPEKKTPEE	IFRKVL	ISTIVSWAESQIENPKLV	REMFSLLRQYDT	VGELIRALEKTYVINAKTKDDA	ALMWVGLSQIRALLPV
SEQ ID NO: 58	VLEEGMEMQKK	GTQF	REIIVTMLREWAQAD	IESKSLIRNNFRLLRQYSG	IREIRAMSQTYVFHERNEK	VDVDFLVYLIQIRELLTV
SEQ ID NO: 59	SPAGAILQEFSS	DSL	SHLISNTMIKWAEEKHIED	PTLVREMFNLLHRQYD	GVGELCSALQKSYVSSNQ	RDDIVHLLTSLGQIRSLTV
SEQ ID NO: 60	QAEKPVASDS	RKCS	LQQLISETMVRWAQES	VIEDPELVAMFVLLHRQYD	GIGGLVRALPKTYTING	SVSVEDTINLLASLGQIRSLTV
SEQ ID NO: 61	QTEKPVESDS	RKCS	TLQQLISETMVRWAQES	VIEDPELVAMFVLLHRQYD	GIGGLVRALPKTYTING	SVSVEDTINLLASLGQIRSLTV
SEQ ID NO: 62	QAEKPVESDS	RKCS	TLQQLISETMVRWAQES	VIEDPELVAMFVLLHRQYD	GIGGLVRALPKTYTING	SVSVEDTINLLASLGQIRSLTV
SEQ ID NO: 2	QMSQEEEEELMR	KRLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 128	QMSQEEEEELMR	KRLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 130	QMSQEEEEELMR	KRLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 144	QMSQEEEEELMR	KRLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 146	QMSQEEEEELMR	KRLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 4	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 6	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 8	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 10	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 56	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 57	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 58	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 59	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 60	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 61	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV
SEQ ID NO: 62	QMSQEEEEELMR	ERLWKL	VNNHTFFQHPDL	IRVLRVHENVMAVMNNTL	GRRQAQAS	---DAQPSSQPV

FIGURE 10

SEQ ID NO:2	-----NKEKDTSHM	VVACCRFLCYFCRTGRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:128	-----SKEKDTSHM	VVACCRFLCYFCRTGRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:130	-----NKEKDTSHM	VVACCRFLCYFCRTGRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:144	-----NKEKDTSHM	VVACCRFLCYFCRTGRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:146	-----NKEKDTSHM	VVACCRFLCYFCRTGRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:4	-----PKEKDTSHM	VVACCRFLCYFCRTSRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:6	-----PKEKDTSHM	VVACCRFLCYFCRTSRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:8	-----AKEKDTSHM	VVACCRFLCYFCRTSRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:10	-----SKEKDTSHM	VVACCRFLCYFCRTGRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:56	-----SKEKDTSHM	VVACCRFLCYFCRTGRNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:57	-----PKEKDTSHM	VVACCRFLCYFCRTGRMNQKAMF	DFHDFLLENSILLSRPSLRGSTPLDVAYSSLM	MENTELALALREHYLEK		
SEQ ID NO:58	-----APIKDASEM	VVACSRFLCYFCRTSRNQKAMF	EHLSFLLDNATMLLARPSLRGSVPLDVAYSS	FMDNNELALALKEEELDK		
SEQ ID NO:59	LARRARMCHSKDRFARAL	IAGCCRF	LCYFCRTSRNQKALFDTLLYLLDHGFIGLSYPSLRGSCPLDVAASLMDNNELALALREHQHLEK			
SEQ ID NO:60	-----SKEITFPKM	VANCCRF	LCYFCRISRQKQKAMF	DHLSYLLSENSVGLASPMRGSTPLDVAASVMDNNELALALREPDLEK		
SEQ ID NO:61	-----SKEITFPKM	VANCCRF	LCYFCRISRQKQKAMF	DHLSYLLSENSVGLASPMRGSTPLDVAASVMDNNELALALREPDLEK		
SEQ ID NO:62	-----SKEITFPKM	VANCCRF	LCYFCRISRQKQKAMF	DHLSYLLSENSVGLASPMRGSTPLDVAASVMDNNELALALREPDLEK		
SEQ ID NO:2	IAV-YLSRCGLQSNSEL	VEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLKAIVDANKM	
SEQ ID NO:128	IAV-YLSRCGLQSNSEL	VEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLKAIVDANKM	
SEQ ID NO:130	IAV-YLSRCGLQSNSEL	VEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLKAIVDANKM	
SEQ ID NO:144	IAV-YLSRCGLQSNSEL	VEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLKAIVDANKM	
SEQ ID NO:146	IAV-YLSRCGLQSNSEL	VEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLKAIVDANKM	
SEQ ID NO:4	IAI-YLSRCGLQSNSEL	IEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLRAI	
SEQ ID NO:6	IAI-YLSRCGLQSNSEL	IEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLRAI	
SEQ ID NO:8	IAI-YLSRCGLQSNSEL	IEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLRAI	
SEQ ID NO:10	IAV-YLSRCGLQSNSEL	VEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLFRAI	
SEQ ID NO:56	IAV-YLSRCGLQSNSEL	VEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLFRAI	
SEQ ID NO:57	IAI-YLSRCGLQSNSEL	IEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLKAI	
SEQ ID NO:58	IAI-YLSRCGLQSNSEL	IEKGYPDIGWD	PVEGERYLD	FLRFFCVWNGESVEENANLVIRLLIRRPEC	LGPAIRGEG-EGLLKAI	
SEQ ID NO:59	VIT-FLSRGCGVDNAR	LAMGNPYLDG	TPDGERYLD	FLRFAVFCNGESVEENANLVIRLLIRRPEC	FGPAIRGEGGNGLLAAMEEAIKI	
SEQ ID NO:60	VVARYLAGCGLQSCQML	VS	KGYDDIGWNP	VEGERYLD	FLRFAVFCNGESVEENANLVIRLLIRRPEC	FGPAIRGEGGNGLLAAMEEAIKI
SEQ ID NO:61	VVR-YLAGCGLQSCQML	VS	KGYDDIGWNP	VEGERYLD	FLRFAVFCNGESVEENANLVIRLLIRRPEC	FGPAIRGEGGNGLLAAMEEAIKI
SEQ ID NO:62	VVR-YLAGCGLQSCQML	VS	KGYDDIGWNP	VEGERYLD	FLRFAVFCNGESVEENANLVIRLLIRRPEC	FGPAIRGEGGNGLLAAMEEAIKI

FIGURE 1P

SEQ ID NO: 2	SERIAARRKRE-----MEQ--EGDVNFSPHLPESDED-EDYIDTGAAILNFYCTLVLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 128	SERIAARRKRE-----MEQ--EGDVNFSPHLPESDED-EDYIDTGAAILNFYCTLVLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 130	SERIAARRKRE-----MEQ--EGDVNFSPHLPESDED-EDYIDTGAAILNFYCTLVLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 144	SERIAARRKRE-----MEQ--EGDVNFSPHLPESDED-EDYIDTGAAILNFYCTLVLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 146	SERIAARRKRE-----MEQ--EGDVNFSPHLPESDED-EDYIDTGAAILNFYCTLVLLGRCAPDAGVIALGKNESLRARAILRSLVP
SEQ ID NO: 4	SERITERRKFL-----ES-GNQENIQLDHPLPESDDD-EDYIDTGAAILNFYCTLVLLGRCAPDSSVIALGKNESLRARAILRSLVP
SEQ ID NO: 6	SERIAERRKFLE-----ES-GNQENIQLDHPLPESDDD-EDYIDTGAAILNFYCTLVLLGRCAPDSSVIALGKNESLRARAILRSLVP
SEQ ID NO: 8	SERIAARRKVM-----EPEGTTVMVHFHPLPESDDD-EDYIDTGAAILNFYCTLVLLGRCAPDSSVIALGKNESLRARAILRSLVP
SEQ ID NO: 10	SERISDRCKMQD-----EAEGTIAGLNFTHPLPEGEED-EDYIDTGAAILNFYCTLVLLGRCAPDSSVIALGKNESLRARAILRSLVP
SEQ ID NO: 56	SERISDRCKMQD-----EAEGTIAGLNFTHPLPEGEED-EDYIDTGAAILNFYCTLVLLGRCAPDSSVIALGKNESLRARAILRSLVP
SEQ ID NO: 57	SERISERRKMQD-----EAEGTITGLNFSHPHLPESGDD-EDYIDTGAAILCFYCTLVLLGRCAPDAAVIEQGNESLRARAILRSLVP
SEQ ID NO: 58	SEDIRLLENDSP-----SLLSSGLLGENPTYPSKDAEGEDYIDLGAATLDFYSSLVLLAKCAPDMAIQAGKGSRLARAILRSLIS
SEQ ID NO: 59	SETAEEGYLISAPTMAISEEDGEVRPIDASGQDEEGDED-EDDVTGGAAILTFYATLIDLLGRCAPDENRLSQGRTEPQIRAILQSLVP
SEQ ID NO: 60	AEDPSR-----DGPSPTSGSSKTLIDIEEEE-DDTTHMGNAIMTFYAAALIDLLGRCAPEMHLIHAGKGEAIRIRSILRSLIP
SEQ ID NO: 61	AEDPSR-----DGPSPTSGSSKTLIDTEEEE-DDTTHMGNAIMTFYAAALIDLLGRCAPEMHLIHAGKGEAIRIRSILRSLIP
SEQ ID NO: 62	AEDPSR-----DGPSPNSGSSKTLIDTEEEE-DDTTHMGNAIMTFYSAALIDLLGRCAPEMHLIHAGKGEAIRIRSILRSLIP
SEQ ID NO: 2	LEDLQGVLSLRFITLNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVYGIETQELFYKLLLEAFPLDLRAATMLDRNDGCGES
SEQ ID NO: 128	LEDLQGVLSLRFITLNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVYGIETQELFYKLLLEAFPLDLRAATMLDRNDGCGES
SEQ ID NO: 130	LEDLQGVLSLRFITLNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVYGIETQELFYKLLLEAFPLDLRAATMLDRNDGCGES
SEQ ID NO: 144	LEDLQGVLSLRFITLNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVYGIETQELFYKLLLEAFPLDLRAATMLDRNDGCGES
SEQ ID NO: 146	LEDLQGVLSLRFITLNPAA-----GEERP KSDMP SGLIPGHKQSVGLFLGRVYGIETQELFYKLLLEAFPLDLRAATMLDRNDGCGES
SEQ ID NO: 4	LEDLHGVLSLRFTLQNPAA-----GQDRPKSDMP SGLIPGHKQSVLFLGRVYGIEMQELFFTLLEAFPLDLRTATMLDRNDGLES
SEQ ID NO: 6	LEDLHGVLSLRFTLQNPAA-----GQDRPKSDMP SGLIPGHKQSVLFLGRVYGIEMQELFFTLLEAFPLDLRTATMLDRNDGLES
SEQ ID NO: 8	LEDLQGVLSLKFITLQNPAA-----GEERP KSDMP SGLIPGHKQSVLFLGRVYGIETQELFFRLLEAFPLDLRAATMLDRNDGSES
SEQ ID NO: 10	LEDLQGVLSLKFITLQNPAA-----GEERP KSDMP SGLIPGHKQSVLFLGRVYGIETQELFFRLLEAFPLDLRTATMLDRNDGSES
SEQ ID NO: 56	LEDLQGVLSLKFITLQNPAA-----GEERP KSDMP SGLIPGHKQSVLFLGRVYGIETQELFFRLLEAFPLDLRTATMLDRNDGSES
SEQ ID NO: 57	LEDLQGVLSLKFITLQNPAA-----GEERP KSDMP SGLIPGHKQSVLFLGRVYGIETQELFFRLLEAFPLDLRTATMLDRNDGSES
SEQ ID NO: 58	LEDLQGVLSLKFITLQNPAA-----GEERP KSDMP SGLIPGHKQSVLFLGRVYGIETQELFFRLLEAFPLDLRTATMLDRNDGSES
SEQ ID NO: 59	LEDLQGVLSLKFITLQNPAA-----GEERP KSDMP SGLIPGHKQSVLFLGRVYGIETQELFFRLLEAFPLDLRTATMLDRNDGSES
SEQ ID NO: 60	LEDLQGVLSLKFITLQNPAA-----GEERP KSDMP SGLIPGHKQSVLFLGRVYGIETQELFFRLLEAFPLDLRTATMLDRNDGSES
SEQ ID NO: 61	LEDLQGVLSLKFITLQNPAA-----GEERP KSDMP SGLIPGHKQSVLFLGRVYGIETQELFFRLLEAFPLDLRTATMLDRNDGSES
SEQ ID NO: 62	LEDLQGVLSLKFITLQNPAA-----GEERP KSDMP SGLIPGHKQSVLFLGRVYGIETQELFFRLLEAFPLDLRTATMLDRNDGSES

FIGURE 1Q

SEQ ID NO: 2	DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLRLKLTVDVSKLS
SEQ ID NO: 128	DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLRLKLTVDVSKLS
SEQ ID NO: 130	DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLRLKLTVDVSKLS
SEQ ID NO: 144	DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLRLKLTVDVSKLS
SEQ ID NO: 146	DMALSMNRYIGNSILPLLIKHAYFYNEAENYASLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSAMQPSMLLKLRLKLTVDVSKLS
SEQ ID NO: 4	DMALAMNRYIGKSVLPLLIHSHKFSYSESGNYANLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSQMQPSMLLKLRLKLTVDVSNLS
SEQ ID NO: 6	DMALAMNRYIGKSVLPLLIHSHKFSYSESGNYANLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSQMQPSMLLKLRLKLTVDVSNLS
SEQ ID NO: 8	DMALAMNRYIGNSILPLLIHSHKFSYNEADNYASLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSQMQPSMLLKLRLKLTVDVSKLT
SEQ ID NO: 10	DMALAMNRYIGNSILPLLIHSHKFSYNEADNYASLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSQMQPSMLLKLRLKLTVDVSKLS
SEQ ID NO: 56	DMALAMNRYIGNSILPLLIHSHKFSYNEADNYASLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSQMQPSMLLKLRLKLTVDVSKLS
SEQ ID NO: 57	DMALAMNRYIGNSILPLLIHSHKFSYNEADNYASLLDATTHTVYRLSKNRMLTKGQREAVSDFLVALTSQMQPSMLLKLRLKLTVDVSKLS
SEQ ID NO: 58	DTALALNRYL CNSVLPLLTNHSFFADAEHHSALLDATTHTVYRMNRKSLTKNQORDAVSDFLVAITRELPANMMIKLLKKVITDILTWN
SEQ ID NO: 59	DMALALNRYL CNSVLPLLTNHSFFADAEHHSALLDATTHTVYRMNRKSLTKNQORDAVSDFLVAITRELPANMMIKLLKKVITDILTWN
SEQ ID NO: 60	DMALALNRYLCTAVLPLLTRCARLFACTEHHASLIDSLHTVYRLSKGCSLTKAQRDSIEVCLLSICGQLRPSMMQHLLRRLVDFVPLLN
SEQ ID NO: 61	DMALALNRYLCTAVLPLLTRCARLFACTEHHASLIDSLHTVYRLSKGCSLTKAQRDSIEVCLLSICGQLRPSMMQHLLRRLVDFVPLLN
SEQ ID NO: 62	DMALALNRYLCTAVLPLLTRCARLFACTEHHASLIDSLHTVYRLSKGCSLTKAQRDSIEVCLLSICGQLRPSMMQHLLRRLVDFVPLLN
SEQ ID NO: 2	EY -TTVALRLLTLHYERCAKYYGSTGAG -QGAFGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNYD
SEQ ID NO: 128	EY -TTVALRLLTLHYERCAKYYGSTGAG -QGAFGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNYD
SEQ ID NO: 130	EY -TTVALRLLTLHYERCAKYYGSTGAG -QGAFGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNYD
SEQ ID NO: 144	EY -TTVALRLLTLHYERCAKYYGSTGAG -QGAFGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNYD
SEQ ID NO: 146	EY -TTVALRLLTLHYERCAKYYGSTGAG -QGAFGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNYD
SEQ ID NO: 4	EY -TTVALRLLTLHYDRCAKYYGSTGG -QGIYGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNHD
SEQ ID NO: 6	EY -TTVALRLLTLHYDRCAKYYGSTGG -QGIYGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNHD
SEQ ID NO: 8	EY -TTVALRLLTLHYDRCAKYYGSTGG -QGLYGSSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNHD
SEQ ID NO: 10	EY -TTVALRLLTLHFDRCAKYYGSTQG -QGSYGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNTD
SEQ ID NO: 56	EY -TTVALRLLTLHFDRCAKYYGSTQG -QGSYGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNTD
SEQ ID NO: 57	EY -TTVALRLLTLHYERCAKYYGTGGQASQFGASSDEEKRLTMMLFSSIFDLSLKMDEPELFGKALPCLIAIGCALPPDYTL SKNSD
SEQ ID NO: 58	DMNVLPLRLTLHYERCAKYYGSGNH - - - -YGVASEQEKRLSMLLFDATFTIGSRPYDPELFGKALPCLIAIGCALPPDYTL TSGLE
SEQ ID NO: 59	EY -SYVALKILQLHYERCVSYYGSGNG -WGSYGAADEEKRLTMMLFTGLFDALAEKDEYDEELFDRLPCLTAIGSALPPDYMSYN - -
SEQ ID NO: 60	EH -AKMPLKLLTNHYERCWKYYCLPGG - -WGNFGAASEEELHL SRKLFWGI FIDALSQKKYEQELFKLALPCLSAVAGALPPDYMESNY - -
SEQ ID NO: 61	EH -AKMPLKLLTNHYERCWKYYCLPGG - -WGNFGAASEEELHL SRKLFWGI FIDALSQKKYEQELFKLALPCLSAVAGALPPDYMESNY - -
SEQ ID NO: 62	EH -AKMPLKLLTNHYERCWKYYCLPGG - -WGNFGAASEEELHL SRKLFWGI FIDALSQKKYEQELFKLALPCLSAVAGALPPDYMESNY - -

FIGURE 1R

SEQ ID NO:2	DEFYGEQAAGDLDPQYDPQINTSSVALNNDLNTIVQKFSHYHDAWASRKIENGWVYGEQSDSQKTHPRLPKPYNNMLNDY----	EK
SEQ ID NO:128	DEFYGEQAAGDLDPQYDPQINTSSVALNNDLNTIVQKFSHYHDAWASRKIENGWVYGEQSDSQKTHPRLPKPYNNMLNDY----	EK
SEQ ID NO:130	DEFYGEQAAGDLDPQYDPQINTSSVALNNDLNTIVQKFSHYHDAWASRKIENGWVYGEQSDSQKTHPRLPKPYNNMLNDY----	EK
SEQ ID NO:144	GEFYGEQAAGDLDPQYDPQINTSSVALNNDLNTIVQKFSHYHDAWASRKIENGWVYGEQSDSQKTHPRLPKPYNNMLNDY----	EK
SEQ ID NO:146	DEFYGEQAAGDLDPQYDPQINTSSVALNNDLNTIVQKFSHYHDAWASRKIENGWVYGEQSDSQKTHPRLPKPYNNMLNDY----	EK
SEQ ID NO:4	DEWYGSQNIQGPSDGPYPNPQINTSSVALNNDLNTIVQKFSHYHDAWASRKIENGWVYGEQSDSQKTHPRLPKPYNNMLNDY----	EK
SEQ ID NO:6	DEWYGSQNIQGPSDGPYPNPQINTSSVALNNDLNTIVQKFSHYHDAWASRKIENGWVYGEQSDSQKTHPRLPKPYNNMLNDY----	EK
SEQ ID NO:8	DELYGARDSQAGSDGPYPNPQINTSSVALNNDLNTIVQKFSHYHDAWASRKIENGWVYGEQSDSQKTHPRLPKPYNNMLNDY----	ER
SEQ ID NO:10	EDYGRQMG--APDQPYMPNPIDTNNVHLNDLNSLVQKFSHYHDAWASRRLEGGWYGDIRSDNDRKHPRLPKPYNNMLNDY----	ER
SEQ ID NO:56	EDYGRQMG--APDQPYMPNPIDTNNVHLNDLNSLVQKFSHYHDAWASRRLEGGWYGDIRSDNDRKHPRLPKPYNNMLNDY----	ER
SEQ ID NO:57	DDLKGKPTGG-GPDQPHYNPQIDTAVQLTNDLNIQVQKFSHYHDAWASRKLENGWYGDQSDANKTHPRLPKPYNTLSEY----	ER
SEQ ID NO:58	DVRNKRREE-----EGAWIPRTVDVSRCEINRDLEKMTFLFAEHFHDWSAARKLEKGVHGDLYSRANFTHPRLPKPFALLKOF----	EK
SEQ ID NO:59	DESIVVRESC--FDADGIYQPKPVDNSKNVLLNESLLSFSDRAEHLHDSWALAMFDNGWTHGEAENSAMKESCMRLPYKTLTTK----	EK
SEQ ID NO:60	VSMMEKQSS--MDSEGNNFNPQVDTSNITPEKLEYFINKYAEHSHDKWSMDKLANGWYGEIYSDSSKIQLPMKPYKLLSEK----	EK
SEQ ID NO:61	VSMMEKQSS--MDSEGNNFNPQVDTSNITPEKLEYFINKYAEHSHDKWSMDKLANGWYGEIYSDSSKIQLPMKPYKLLSEK----	EK
SEQ ID NO:62	VSMMEKQSS--MDSEGNNFNPQVDTSNITPEKLEYFINKYAEHSHDKWSMDKLANGWYGEIYSDSSKIQLPMKPYKLLSEK----	EK
SEQ ID NO:2	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMGROKSGGRPPEIVT--DSATPFNYNPHPVDMTNLTLSREMQNMAERLADNAHD	
SEQ ID NO:128	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMGROKSGGRPPEIVT--DSATPFNYNPHPVDMTNLTLSREMQNMAERLADNAHD	
SEQ ID NO:130	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMGROKSGGRPPEIVT--DSATPFNYNPHPVDMTNLTLSREMQNMAERLADNAHD	
SEQ ID NO:144	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMGROKSGGRPPEIVT--DSATPFNYNPHPVDMTNLTLSREMQNMAERLADNAHD	
SEQ ID NO:146	ERYKEPVRESLKALLAIGWSVEHSEVDIPSNRRSSMGROKSGGRPPEIVT--DSATPFNYNPHPVDMTNLTLSREMQNMAERLADNAHD	
SEQ ID NO:4	ELYKEPVRESLKALLAIGWSIEHSENDAPLNRRGSVRRQSK-----SN-----ENVTPFDYHPNPIDMTNLTLTREMQNMAERLAEHSHD	
SEQ ID NO:6	ELYKEPVRESLKALLAIGWSIEHSENDAPLNRRGSVRRQSK-----SN-----ENVTPFDYHPNPIDMTNLTLTREMQNMAERLAEHSHD	
SEQ ID NO:8	ERYKEPVRESLKALLAIGWTVHESEADVPLTSRGSIRRQSK-----PNAMV--DSSTPFNYHPNPIDMTNLTLTREMQNMAERLAEHSHD	
SEQ ID NO:10	ERYRDPVRECLKGLLAIGWTVHESEVEVPLNHRGSTRQSK-----PQINE-----GSPFNYPNPHPVDMSNLTLSREMQNMAERLAEHSHD	
SEQ ID NO:56	ERYRDPVRECLKGLLAIGWTVHESEVEVPLNHRGSTRQSK-----PQINEFQNEGSPFNYPNPHPVDMSNLTLSREMQNMAERLAEHSHD	
SEQ ID NO:57	ERYREPVRRESLKALLALHWRIEHSEGDVPLSNRRGSMRRQSK-----PNLEQDGTGSPFNYPNPHPVDMTNLTLSREMQNMAERLAEHSHD	
SEQ ID NO:58	SFYKERCSECLKALMAWNYSFEMMDRDAN-DRASAARTLSG-----TSISNFAKPIDLSMTLEKDMVNAAEKWAESHSL	
SEQ ID NO:59	DSYREPVRRESLKALLAWGWSVERSKASEQOQAHRRPRLSK-----ASLGA-----MESPHGYNPRPIDVSNITLTREMQTMAERLAEHSHD	
SEQ ID NO:60	EIYRWPIKESLKTMLAWGWRJERTREGDSMALYNRTTRISQ-----TSQVS-----IDAAHGYSPRAIDMSNVTLSRDLHMAEMMAENYHN	
SEQ ID NO:61	EIYRWPIKESLKTMLAWGWRJERTREGDSMALYNRTTRISQ-----TSQVS-----VDAAHGYSPRAIDMSNVTLSRDLHMAEMMAENYHN	
SEQ ID NO:62	EIYRWPIKESLKTMLARTWERTERTREGDSMALYNRTTRISQ-----TSQVS-----VDAAHGYSPRAIDMSNVTLSRDLHMAEMMAENYHN	

FIGURE 1S

SEQ ID NO:2	IWAKKKEELVTNGGIIHPQVLPYDILLTDKEKKKDRERSQEFVKYLQYQGYKLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLSLEKLIQY
SEQ ID NO:128	IWAKKKEELVTNGGIIHPQVLPYDILLTDKEKKKDRERSQEFVKYLQYQGYKLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLSLEKLIQY
SEQ ID NO:130	IWAKKKEELVTNGGIIHPQVLPYDILLTDKEKKKDRERSQEFVKYLQYQGYKLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLSLEKLIQY
SEQ ID NO:144	IWAKKKEELVTNGGIIHPQVLPYDILLTDKEKKKDRERSQEFVKYLQYQGYKLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLSLEKLIQY
SEQ ID NO:146	IWAKKKEELVTNGGIIHPQVLPYDILLTDKEKKKDRERSQEFVKYLQYQGYKLRPSKAPQ-SDTEQT-TTGVAIELRFAYSLSLEKLIQY
SEQ ID NO:4	IWAKKKEEVMLCGGGIHNQVLPYDILLTDKEKKKDRERSQEFVKYLQYQGYKLRPNRNGGSPSEAEQ-AAAATGELRFSYLSLEKLIHY
SEQ ID NO:6	IWAKKKEEVMLCGGGIHNQVLPYDILLTDKEKKKDRERSQEFVKYLQYQGYKLRPNRNGGSPSEAEQ-AAAATGELRFSYLSLEKLIHY
SEQ ID NO:8	IWAKKKEELITCGGIIHPQVLPYDILLTDKEKKKDRERSQEFVKYLQYQGYKLRPSRTGGPSESEQ-AAAATGELRFSYLSLEKLIQY
SEQ ID NO:10	IWAKKKEELNCGGVIHPQVLPYDILLTDKEKKKDRERSQEFVKYMQYQGYKLRPSKGG-AVEEG-ATQAAVELRFSYLSLEKLIQY
SEQ ID NO:56	IWAKKKEELNCGGVIHPQVLPYDILLTDKEKKKDRERSQEFVKYMQYQGYKLRPSKGG-AVEEG-ATQAAVELRFSYLSLEKLIQY
SEQ ID NO:57	IWAKKKEELDQCGAIHAQVLPYDILLTDKEKKKDRERSQEFVKYLQYQGLKHKPSRG--QTEEPG-MSTAAIELRFAYSLSLEKLIQY
SEQ ID NO:58	IWAKKVMNDLNTKGGFMPILPVPWDLITDFERRKDRFRASEILKFLQYGHYVNCPEQSDRQKSEGERTSVEKRFAYNLLEKLIQY
SEQ ID NO:59	VWAKTKLEMLRSGGCHQVLPFDILLTDSEKKKORDMAQALLKFLQVWNGYRLQRHSL--MDADGIIRGHSTIEKRFAFNLDKLIHY
SEQ ID NO:60	IWAKKKLELESKGGGNHPLLPYDITLTAKEKAKOREKAQDILKFLQISGYVVSRGFKD--LDLD-----TPSIEKRFAYSFLOQLIRY
SEQ ID NO:61	IWAKKKLELESKGGGNHPLLPYDITLTAKEKAKOREKAQDILKFLQINGYAVSRGFKD--LELD-----TPSIEKRFAYSFLOQLIRY
SEQ ID NO:62	IWAKKKMELESKGGGNHPLLPYDITLTAKEKAKOREKAQDILKFLQINGYAVSRGFKD--LELD-----TPSIEKRFAYSFLOQLIRY
SEQ ID NO:2	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKVVLPLMEKYFSTHRNYFIAVATATNSVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO:128	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKAVLPLMEKYFSTHRNYFIAVATATNNVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO:130	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKVVLPLMEKYFSTHRNYFIAVATATNNVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO:144	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKVVLPLMEKYFSTHRNYFIAVATATNNVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO:146	IDRATINMKLLKPST-TFSRRSSFKTSTRDIKFFSKVVLPLMEKYFSTHRNYFIAVATATNNVG--AASLKEKEMVAALFCKLASLLRSR
SEQ ID NO:4	IDRASINMKLLKPSG-TFSRRSSFKICTRDIKFFSKVVLPLVEKYFSTHRNYFTVATASSVLG--AASLKEKEMVASLFCCLANLLRSK
SEQ ID NO:6	IDRASINMKLLKPSG-TFSRRSSFKICTRDIKFFSKVVLPLVEKYFSTHRNYFTVATASSVLG--AASLKEKEMVASLFCCLANLLRSK
SEQ ID NO:8	IDRASINMKLLKPST-TFSRRSSFKTCTRDIKFFSKVVLPLVEKYFSTHRNYFTVATASNNIG--AASLKEKEMVASLFCCLANLLRSR
SEQ ID NO:10	LD RATINMKLLKPST-TFSRRSSFKTATRDIKFFSKVVLPLMEKYFSTHRNYFTVATATNNIG--AASLKEKEMVASIFCKLAALLRNR
SEQ ID NO:56	LD RATINMKLLKPST-TFSRRSSFKTATRDIKFFSKVVLPLMEKYFSTHRNYFTVATATNNIG--AASLKEKEMVASIFCKLAALLRNR
SEQ ID NO:57	SDRATINMKLLKPS--TFSRRSSFKTCSRDIKFFSKVVLPLMEKYFSSNNRYFTVATATNNIG--AASLKEKEMVAGLFCCLASLLRHR
SEQ ID NO:58	LEQASLKMSVKPSQ-ELTRRNSFKKGQDVFFKVKVPLPLMHAYFNAHKNYFLEGSSIVQTGT--ASNKEKEMVANLFCCLAALLRIK
SEQ ID NO:59	VKDSQANLKPQRQODSFRSSKSSGDRGYKVFVAKVVLPLIEKYFQAHSSYFVADPNAPNGRSGSGASTREKELVSSLFCKLAQLIRQK
SEQ ID NO:60	VDEAHQYILEFDGGS---RSKGHFFPYEQEIKFFFAKVVLPIDQYFKNHRLYFLSAASRPLCTG-GHASNKEKEMVTSLFCCLGVIVRHR
SEQ ID NO:61	VDEAHQYILEFDGGS---RSKGHFFPYEQEIKFFFAKVVLPIDQYFKNHRLYFLSAASRPLCSG-GHASNKEKEMVTSLFCCLGVIVRHR
SEQ ID NO:62	VDEAHQYILEFDGGS---RGKGHFFPYEQEIKFFFAKVVLPIDQYFKNHRLYFLSAASRPLCSG-GHASNKEKEMVTSLFCCLGVIVRHR

FIGURE 1T

SEQ ID NO: 2	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPEFIRTSMLTFFNNVADDVGHTIMNLQDG-KYAHLR-GTHLKTSTSLGYIHGVLPLILT
SEQ ID NO: 128	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPEFIRTSMLTFFNNVADDVGHTIMNLQDG-KYAHLR-GTHLKTSTSLGYINGVLLPILT
SEQ ID NO: 130	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPEFIRTSMLTFFNNVADDVGHTIMNLQDG-KYAHLR-GTHLKTSTSLGYINGVLLPILT
SEQ ID NO: 144	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPEFIRTSMLTFFNNVADDVGHTIMNLQDG-KYAHLR-GTHLKTSTSLGYINGVLLPILT
SEQ ID NO: 146	LAAFGPDVRIITVRCLQVLVRGIDAKSLVKNCPEFIRTSMLTFFNNVADDVGHTIMNLQDG-KYAHLR-GTHLKTSTSLGYINGVLLPILT
SEQ ID NO: 4	LMAFGADVRIITVRCLQVLVRGIDAKSLVKNCPEFIRTSMLTFFNNVADDVGHTIMNLQDG-KYAHLR-GTHLKTSTSLFYVNDVILPVL
SEQ ID NO: 6	LMAFGADVRIITVRCLQVLVRGIDAKSLVKNCPEFIRTSMLTFFNNVADDVGHTIMNLQDG-KYAHLR-GTHLKTSTSLFYVNDVILPVL
SEQ ID NO: 8	LMAFGADVRIITVRCLQVLVRGIDAKSLVKNCPEFIRTSMLTFFNNVADDVGHTIMNLQDG-KYAHLR-GTHLKTSTSLFYVNDVILPVL
SEQ ID NO: 10	LMAFGADVRIITVRCLQVLVRGIDAKSLVKNCPEFIRTSMLTFFNNVADDVGHTIMNLQDG-KYAHLR-GTHLKTSTSLFYVNDVILPVL
SEQ ID NO: 56	LSAFGPDVRIITVRCLQVLVRGIDARTLTKNCPPEFIRTSMLTFFNQTSDDGLGNTILNLQDG-KYSHLR-GTHLKTSTSLGYVNVQVLPVLT
SEQ ID NO: 57	LSAFGPDVRIITVRCLQVLVRGIDARTLTKNCPPEFIRTSMLTFFNQTSDDGLGNTILNLQDG-KYSHLR-GTHLKTSTSLGYVNVQVLPVLT
SEQ ID NO: 58	LAAFGADVRIITVRCLQVLVRGIDARTLTKNCPPEFIRTSMLTFFNQTSDDGLGNTILNLQDG-KYSHLR-GTHLKTSTSLGYVNVQVLPVLT
SEQ ID NO: 59	NRAFGSVAKITVKCLQGLTQALDLRLTVKNSDVRISLTFNNCADDLYASVNELKDGQYSLIR-GQALKSWNSFEFANQMVLPVLT
SEQ ID NO: 60	INLFGRLVPPFIRCIIRVVAQSIDASSVVKHSADAIKNGLLVFRHASDDLVATVDSVTSGRFTHIKSNQVHKHSLAVNYVPGVLVPVLI
SEQ ID NO: 61	ISLFGNDATSIIVNCLHILGQTLDAITVMKTGLDSVKSALRAFIDNAEDELKTMENLKQG-QFTHTR-SQPKGVTQIINYTTVALLPMLS
SEQ ID NO: 62	ISLFGNDATSIIVNCLHILGQTLDAITVMKTGLDSVKSALRAFIDNAEDELKTMENLKQG-QFTHTR-SQPKGVTQIINYTTVALLPMLS
SEQ ID NO: 2	AKFDHLANCEYGADLLILDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 128	AKFDHLANCEYGADLLILDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 130	AKFDHLANCEYGADLLILDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 144	AKFDHLANCEYGADPLILDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 146	AKFDHLANCEYGADLLILDEIQVASYKMLGSLYALGTDASLTHDRKYLKTEIERHKPALGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 4	SLFDHLAAVEYGNELLILNEIQVAAVKMLSSLYTLGTDTSLTHDRKYLKTEIERHRLPAFGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 6	SLFDHLAAVEYGNELLILNEIQVAAVKMLSSLYTLGTDTSLTHDRKYLKTEIERHRLPAFGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 8	AMFDHLAAACEYGSDDLVLDEIQVASYKMLGSLYALGTDVTLTHDRKYLKTEIERHRLPAFGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 10	AMFDHLAAACEYGSDDLVLDEIQVASYKMLGSLYALGTDVTLTHDRKYLKTEIERHRLPAFGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 56	AMFDHLAAACEYGSDDLVLDEIQVASYKMLGSLYALGTDVTLTHDRKYLKTEIERHRLPAFGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 57	SLFDHLAAACEYGSDDLVLDEIQVASYKMLGSLYALGTDVTLTHDRKYLKTEIERHRLPAFGSCIGAFSSSTFPVAFQEPHLNKHNFSLNRI
SEQ ID NO: 58	TMFAHLARNHFGTDLILLDDIQAAVCYKILDSLYMTGLSSISHRKSIISGESEKHPGLGQCLAAAFASCFPVAFLEPEFHNKSNFSLAKS
SEQ ID NO: 59	SLFQHLARNHNYGADLLILDEIQVVCYRILSLCYKVADQSI-----Y--VKLRPAVGEALLAAAFASCFPVAFLEPEFHNKSNFSLAKS
SEQ ID NO: 60	SLFEHIGHQHGFGEDELILEDVQVSCYRILTSYALGTSKSI-----Y--VERQSAIGECLAAAFAGAFPIAFLETHLDKHNVIYSYNTK
SEQ ID NO: 61	SLFEHIGHQHGFGEDELILEDVQVSCYRILTSYALGTSKSI-----Y--VERQSAIGECLAAAFAGAFPIAFLETHLDKHNVIYSYNTK
SEQ ID NO: 62	SLFEHIGHQHGFGEDELILEDVQVSCYRILTSYALGTSKSI-----Y--VERQSAIGECLAAAFAGAFPIAFLETHLDKHNVIYSYNTK

FIGURE 1U

SEQ ID NO: 2	ADHS---LEAQDIMQKMEQCMPTLETILGEVDQFVESDKTYNEAPHIIDVVLPLLCSYLPFWWAQGPDPNVPTTGGN-----HVTMVTAEH
SEQ ID NO: 128	ADHS---LEAQDIMQKMEQCMPTLETILGEVDQFVESDKTYNEAPHIIDVVLPLLCSYLPFWWAQGPDPNVPTTGGN-----HVTMVTAEH
SEQ ID NO: 130	ADHS---LEAQDIMQKMEQCMPTLETILGEVDQFVESDKTYNEAPHIIDVVLPLLCSYLPFWWAQGPDPNVPTTGGN-----HVTMVTAEH
SEQ ID NO: 144	ADHS---LEAQDIMQKMEQCMPTLETILGEVDQFVESDKTYNEAPHIIDVVLPLLCSYLPFWWAQGPDPNVPTTGGN-----HVTMVTAEH
SEQ ID NO: 146	ADHS---LEAQDIMQKMEQCMPTLETILGEVDQFVESDKTYNEAPHIIDVVLPLLCSYLPFWWAQGPDPNVPTTGGN-----HVTMVTAEH
SEQ ID NO: 4	ADSS---LEAQDIMSRTGEMPTLETILNEVDQFIESEKTYDAPHIIDVILPLLCSYLPYWWAQGPDPNVVALTTGN-----HVTMVTSEH
SEQ ID NO: 6	ADSS---LEAQDIMSRTGEMPTLETILNEVDQFIESEKTYDAPHIIDVILPLLCSYLPYWWAQGPDPNVVALTTGN-----HVTMVTSEH
SEQ ID NO: 8	ADHS---LEAQDILSRMESTMPTLETILNEVDQFVESDKTHNDAPHIIDVIMPMCLCSYLPVWNNQGPDPNVVALTTAGN-----YVTTVTSEH
SEQ ID NO: 10	ADHS---LEAQDIMVKMESCMPNLETILAEVDQFVESDKTYNDAPHIIDVILPLLCAYLPFWWSQGPDPNVSPSTSGN-----HVTMVTADH
SEQ ID NO: 56	ADHS---LEAQDIMVKMESCMPNLETILAEVDQFVESDKTYNDAPHIIDVILPLLCAYLPFWWSQGPDPNVSPSTSGN-----HVTMVTADH
SEQ ID NO: 57	ADTS---LEAQDIMSVMESCMPNLETILSEVDQFVESEKTYQEAQHIIDVILPLLCAYLPFWNNQGPDPNVSPQSGN-----HVTMVTADH
SEQ ID NO: 58	QDQS---VQVQEMLQNTLSTHIPLEKLLTDLETANNNTMYSDVPNVYDVLPLMCSYMAHWFVSGPDGKDKEDQASVVQTTSVSCDH
SEQ ID NO: 59	ELRG-ATVEGKEELIKLAGIPTLPVAVTEIDKAMGAKYDQAPHIIEVILPMLCSYLNYWQQGPDPNICRRQGN-----YWTMVNSGN
SEQ ID NO: 60	SSRRTALSLPANVEDVCPNIPSLKLMTEIIELAESGIRYQMPYMMEVLPMLCSYMSRWHEHGPENHPERAEM-----CCTALNSEH
SEQ ID NO: 61	SSRRAALSLPANVEDVCPNIPSLKLMEEIIVELAESGIRYQMPHYMEVILPMLCSYMSRWHEHGPENHPERAEM-----CCTALNSEH
SEQ ID NO: 62	SSRRAALSLPTNVEDVCPNIPSLKLMEEIIVELAESGIRYQMPHYMEVILPMLCSYMSRWHEHGPENHPERAEM-----CCTALNSEH
SEQ ID NO: 2	MNQLLKNVLKLIKKNIGNENAPWMTRIAITYTQQIIINSSEELLRDSFLPLAERVKRKRTDNMFHKEESLRGFIKSSTDDTSQVESIQI QEDW
SEQ ID NO: 128	MNQLLKNVLKLIKKNIGNENAPWMTRIAITYTQQIIINSSEELLRDSFLPLAERVKRKRTDNMFHKEESLRGFIKSSTDDTSQVESIQI QEDW
SEQ ID NO: 130	MNQLLKNVLKLIKKNIGNENAPWMTRIAITYTQQIIINSSEELLRDSFLPLAERVKRKRTDNMFHKEESLRGFIKSSTDDTSQVESIQI QEDW
SEQ ID NO: 144	MNQLLKNVLKLIKKNIGNENAPWMTRIAITYTQQIIINSSEELLRDSFLPLAERVKRKRTDNMFHKEESLRGFIKSSTDDTSQVESIQI QEDW
SEQ ID NO: 146	MNQLLKNVLKLIKKNIGNENAPWMTRIAITYTQQIIINSSEELLRDSFLPLAERVKRKRTDNMFHKEESLRGFIKSSTDDTSQVESIQI QEDW
SEQ ID NO: 4	MNCLLKNVLKLIKKNIGNDNAPWMTQIAAYTQQIIINSSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSSTDDTSQIEAQIQEDW
SEQ ID NO: 6	MNCLLKNVLKLIKKNIGNDNAPWMTQIAAYTQQIIINSSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSSTDDTSQIEAQIQEDW
SEQ ID NO: 8	MNQLLKNVLKMIKKNIGNESAPWMTQIAAYTQQIIINSSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSASDDTSQIEAQIQEDW
SEQ ID NO: 10	MNPLLRNVLMKMIKKNIGNDNAPWMTQIAAYTQQIIINSSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSATDDTSQVETQIQEDW
SEQ ID NO: 56	MNPLLRNVLMKMIKKNIGNDNAPWMTQIAAYTQQIIINSSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSATDDTSQVETQIQEDW
SEQ ID NO: 57	MNHLKNVLKMIKKNIGNANENAPWMTQIAAYTQQIIINSSEELLKDPFLPLAERVKKRTETLYHKEESLRGFIKSATDDTSQVETQIQEDW
SEQ ID NO: 58	INRIFNALLKMIRNVHGIENAPWLCRVNFFAVQIIQNVTSDPVEFVPLPIAERLRMSEKAYKEEHEMRTHPD-----D---ADEGTVAE DN
SEQ ID NO: 59	LNNTLGNVLTILVKNLGNENAPWMSRIAATAKPIILNDAQPELLKTHFVPIEKLERTSKVFKAEDDLKKEYPMGQMEETEFAILEDY
SEQ ID NO: 60	MNTLLGNILKIIYNNLGIDEGAWMKRLAVFSQPIINKVKPQLLKTTHFLPLMEKLLKKAAMVSEEDHLKAEARG---DMSEALLILDEF
SEQ ID NO: 61	MNTLLGNILKIIYNNLGIDEGAWMKRLAVFSQPIINKVKPQLLKTTHFLPLMEKLLKKAAMVSEEDHLKAEARG---DMSEALLILDEF
SEQ ID NO: 62	MNTLLGNILKIIYNNLGIDEGAWMKRLAVFSQPIINKVKPQLLKTTHFLPLMEKLLKKAATVSEEDHLKAEARG---DMSEALLILDEF

FIGURE 1V

SEQ ID NO: 2	QLLVRDIYSFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRV---TAVTDGT
SEQ ID NO: 128	QLLVRDIYSFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRV---TAVTDGT
SEQ ID NO: 130	QLLVRDIYSFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRV---TAVTDGT
SEQ ID NO: 144	QLLVRDIYSFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRV---TAVTDGT
SEQ ID NO: 146	QLLVRDIYSFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRV---TAVTDGT
SEQ ID NO: 4	QLVVRDIYAFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRS---AVISETS
SEQ ID NO: 6	QLVVRDIYAFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRS---AVISETS
SEQ ID NO: 8	QLLVRDIYSFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRS---SAISEGA
SEQ ID NO: 10	QLLVRDIYSFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRS---SAISEGA
SEQ ID NO: 56	QLLVRDIYSFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRS---AAVSGDM
SEQ ID NO: 57	QLLVRDIYSFYPLLIIKYVDLQQRNHWLRNNVPEAEELYNHVABEIFNIWSKSYFLKEEQNFISANEIDNMVLIIMPTATRRS---AAVSGDM
SEQ ID NO: 58	ARLVRDITYAFFPILMKYTDLHRAQWLKTPTWETDGVYENVAVIFRIWSQSQHPKREELNYVAQFEEDAAATGGDMKTG-----KAA
SEQ ID NO: 59	HLIIRDLIYASYPLLIIKFVDSQRSQWLKSPSIDAEKLYYKVASIFNSWARSANFRREEQNYVAQTEVDSSAALTSAMSKSGGNGNFSYGG
SEQ ID NO: 60	TTLARDLIYAFYPLLIIKFVDSQRSQWLKSPSIDAEKLYYKVASIFNSWARSANFRREEQNYVAQTEVDSSAALTSAMSKSGGNGNFSYGG
SEQ ID NO: 61	TTTLARDLIYAFYPLLIIKFVDSQRSQWLKSPSIDAEKLYYKVASIFNSWARSANFRREEQNYVAQTEVDSSAALTSAMSKSGGNGNFSYGG
SEQ ID NO: 62	TTTLARDLIYAFYPLLIIKFVDSQRSQWLKSPSIDAEKLYYKVASIFNSWARSANFRREEQNYVAQTEVDSSAALTSAMSKSGGNGNFSYGG
SEQ ID NO: 2	PQGGG--KKKKKHRDKKRDKEVQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 128	PQGGG--KKKKKHRDKKRDKEVQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 130	PQGGG--KKKKKHRDKKRDKEVQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 144	PQGGG--KKKKKHRDKKRDKEVQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 146	PQGGG--KKKKKHRDKKRDKEVQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 4	LG-GSTGKKKKKHRDKKRDKEKEIQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 6	LG-GSSGKKKKKHRDKKRDKEKEIQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 8	APPGGGKKKKKHRDKKRDKEKEIQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 10	PAVGGKVKKKKKHRDKKRDKEVQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 56	PAVGGKVKKKKKHRDKKRDKEVQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 57	PASGGKVKKKKKHRDKKRDKEVQASLMVACIKRLLPVGLNLFAGREQELVQHCCKDRFLKVGTLKQWSEQDVAAEFQAKTQTLPLDKIDPA
SEQ ID NO: 58	IAERK---KRRR---E-QIKKDKHAASIVIAALKRLLPIGLNIFVGGRELDIVQOSKEKFIQK-----ETEEKIREFVIEFARQTLPLDKIDPA
SEQ ID NO: 59	SLPGEPP-KLQSTAPKPPDGHGSPPSLIIAALKRLLPIGLNIFVGGRELDIVQOSKEKFIQK-----ETEEKIREFVIEFARQTLPLDKIDPA
SEQ ID NO: 60	ISDQER-KKMK-----RKGDYSMTQSLIIVAALKRLLPIGLNIFVGGRELDIVQOSKEKFIQK-----ETEEKIREFVIEFARQTLPLDKIDPA
SEQ ID NO: 61	VSDQER-KKMK-----RKGDYSMTQSLIIVAALKRLLPIGLNIFVGGRELDIVQOSKEKFIQK-----ETEEKIREFVIEFARQTLPLDKIDPA
SEQ ID NO: 62	VSDQER-KKMK-----RKGDYSMTQSLIIVAALKRLLPIGLNIFVGGRELDIVQOSKEKFIQK-----ETEEKIREFVIEFARQTLPLDKIDPA

FIGURE 1X

SEQ ID NO: 2	ACFRQTSLSLPRHRACNIFARTYYELWLEENI-RQEVMIEDLTQSFDAE-----LKKSDVVEEGEKPDPLTQLVTTTS
SEQ ID NO: 128	ACFRQTSLSLPRHRACNIFARTYYELWLEENI-GQEVMIEDLTQSFDAE-----LKKSDVVEEGEKPDPLTQLVTTTF
SEQ ID NO: 130	ACFRQTSLSLPRHRACNIFARTYYELWLEENI-GQEVMIEDLTQSFDAE-----LKKSDVVEEGEKPDPLTQLVTTTF
SEQ ID NO: 144	ACFRQTSLSLPRHRACNIFARTYYELWLEENI-GQEVMIEDLTQSFDAE-----LKKSDVVEEGEKPDPLTQLVTTTF
SEQ ID NO: 146	ACFRQTSLSLPRHRACNIFARTYYELWLEENI-GQEVMIEDLTQSFDAE-----LKKSDVVEEGEKPDPLTQLVTTTF
SEQ ID NO: 4	ACFRQLSLHALTRHRAVNI-FVRSFYELWLQDENI-GQEWMIEDLTQSFDAE-----LKKRDKEEEEGMADPLNQMVTTTF
SEQ ID NO: 6	ACFRQLSLHALTRHRAVNI-FVRSFYELWLQDENI-GQEWMIEDLTQSFDAE-----LKKRDKEEEEGMADPLNQMVTTTF
SEQ ID NO: 8	ACFRQLSLHALPRHRAVNI-FVRSFYELWLQDENI-GQEWMIEDLTQSFDAE-----LKKRDKEEEEGMADPLNQMVTTTF
SEQ ID NO: 10	ACFRQTSLSLPRHRACNIFARSYYEQLWLEENV-GTEVLIEDLTQSFDAE-----LKKTDEEVDEGKSDPLTQLVTTTF
SEQ ID NO: 10	ACFRQTSLSLPRHRACNIFARSYYEQLWLEENV-GQEVMIEDLTQSFDAE-----KSKKEGEETDSKPDPLTQLVTTTF
SEQ ID NO: 56	ACFRQTSLSLPRHRACNIFARSYYEQLWLEENV-GQEVMIEDLTQSFDAE-----KSKKEGEETDSKPDPLTQLVTTTF
SEQ ID NO: 57	-----
SEQ ID NO: 58	SLITASHLYKTELHRGINFFLPAPFSLRWEEEDA-GQDQLIADICSGVEEEEGPRIEIIIMEEGVPIVASEDTKEKETNPDPPLKQLIRCF
SEQ ID NO: 59	ACFRMIPHLHLPRHRAVNI-FVRSFYELWLQDENI-AQHLIIDLTKCSSE-----ELQEFEPENVKDPLYQLISTTF
SEQ ID NO: 60	ACFRMAPLYNLPRHRAVNI-FVRSFYELWLQDENI-AQHLIIDLTKCSSE-----LPEEDEAMKRVDPPLHQLILLF
SEQ ID NO: 61	ACFRMAPLYNLPRHRAVNI-FVRSFYELWLQDENI-AQHLIIDLTKCSSE-----LPEEDEAMKRVDPPLHQLILLF
SEQ ID NO: 62	ACFRMAPLYNLPRHRAVNI-FVRSFYELWLQDENI-AQHLIIDLTKCSSE-----LPEEDEAMKRVDPPLHQLILLF
SEQ ID NO: 2	CRGAMTERSGA--LQEDPLYMSYAHIIAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARPADRGVAEMVLLHIS
SEQ ID NO: 128	CRGAMTERSGA--LQEDPLYMSYAHIIAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARPADRGVAEMVLLHIS
SEQ ID NO: 130	CRGAMTERSGA--LQEDPLYMSYAHIIAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARPADRGVAEMVLLHIS
SEQ ID NO: 144	CRGAMTERSGA--LQEDPLYMSYAHIIAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARPADRGVAEMVLLHIS
SEQ ID NO: 146	CRGAMTERSGA--LQEDPLYMSYAHIIAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARPADRGVAEMVLLHIS
SEQ ID NO: 4	CRGAMTERSGA--LQEDPLYMSYADILAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARLANRGVAEMVLLHIS
SEQ ID NO: 6	CRGAMTERSGA--LQEDPLYMSYADILAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARLANRGVAEMVLLHIS
SEQ ID NO: 8	CRGAMTERSGA--LQEDPLYMSYAEIAAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARLANRGVAEMVLLHIS
SEQ ID NO: 10	CRGAMTERSGA--LQEDPLYMSYAEIAAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARLANRGVAEMVLLHIS
SEQ ID NO: 56	CRGAMTERSGA--LQEDPLYMSYAEIAAKSCGEEEEEKGEEGGGEEAEEDEGRASIIHEQEMEKQKLLFHQARLANRGVAEMVLLHIS
SEQ ID NO: 57	-----E-----
SEQ ID NO: 58	QRAATSEETAASAIHEDSLYIRFADVMAKSIHIEEDGED-----GEEGEIDQAAKEEQSQAALRGVAVLASGAAIMCLMYLS
SEQ ID NO: 59	SRAFGLQQ-DM--LEEDPLYMSYAAIMSTSCSGEDDDDDDD--G-----GDENGTSFQEQEMEKQKLLSEQARLAERGCAEMVLLIS
SEQ ID NO: 60	SRTALTEK-CK--LEEDPLYMAYADIMAKSCHDEDDDD-----GEEVKSFEKEKEMEKQKLLYQQARLHNRGAAEMVLQTTIS
SEQ ID NO: 61	SRTALTEK-CK--LEEDPLYMAYADIMAKSCHDEDDDD-----GEEVKSFEKEKEMEKQKLLYQQARLHNRGAAEMVLQTTIS
SEQ ID NO: 62	SRTALTEK-CK--LEEDPLYMAYADIMAKSCHDEDDDD-----GEEVKSFEKEKEMEKQKLLYQQARLHNRGAAEMVLQTTIS

FIGURE 1Y

SEQ ID NO: 2	ASKGLPSEMVMKTLQLGISILRGNNIDIQMGMNLHLKDKKDVGGFTTSIAGLMNMSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 128	ASKGLPSEMVMKTLQLGISILRGNNIDIQMGMNLHLKDKKDVGGFTTSIAGLMNMSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 130	ASKGLPSEMVMKTLQLGISILRGNNIDIQMGMNLHLKDKKDVGGFTTSIAGLMNMSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 144	ASKGLPSEMVMKTLQLGISILRGNNIDIQMGMNLHLKDKKDVGGFTTSIAGLMNMSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 146	ASKGLPSEMVMKTLQLGISILRGNNIDIQMGMNLHLKDKKDVGGFTTSIAGLMNMSCSVLDLAFERNTKAEGLVGLEGAA-----GEKD
SEQ ID NO: 4	ACKGIPSEMVMKTLQLGIAVLRGGNLEIQMGMNLHLKEKKDVGGFTTSVAGLMNMSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 6	ACKGIPSEMVMKTLQLGIAVLRGGNLEIQMGMNLHLKEKKDVGGFTTSVAGLMNMSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 8	ACNGVPSDMVEKTLQLGISILRGNNIDIQMGMNLHLKEKKDVGGFTTSIAGLMNMSCSVLDLAFERNTKAEGLVGSDGAA-----GEKD
SEQ ID NO: 10	ASKGIPSEMVMKTLNLGIAVLRGGNIDIQMGMNLHLKEKKDVGGFTTSIAGLMNMSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 56	ASKGIPSEMVMKTLNLGIAVLRGGNIDIQMGMNLHLKEKKDVGGFTTSIAGLMNMSCSVLDLAFERNTKAEGLVGSEGA-----GEKD
SEQ ID NO: 57	ASKGVPSEMVMKTLNLGIAVLRGGNIDIQMGMNLHLKEKKDVGGFTTSIAGLMNMSCSVLDLAFERNTKAEGLVGSDGAA-----GEKD
SEQ ID NO: 58	ASGGEPNEMVAQTLQLGIHLLSGGNVEIQKMLLEYLQKDVRFSTSMAGLMNKC SVLNLMFERQIKAEGLGMGAELASG-----DNQE
SEQ ID NO: 59	ASKGEPDSMVFCSLKLGISILRGNNEMVQKMLHLQDKMDVGGFTTSVAELMEKCTVLDLAFERNYKAEGLGVTSGENAGCDGLRAGEKE
SEQ ID NO: 60	ASKGETGPMVAATLKLGIALLNGNSTVQKMLDYLKEKKDVGGFFQSLAGLMQSCSVLDLAFERQNKAEGLGMVTEEGS-----GEKN
SEQ ID NO: 61	ASKGETGPMVAATLKLGIALLNGNSTVQKMLDYLKEKKDVGGFFQSLAGLMQSCSVLDLAFERQNKAEGLGMVTEEGS-----GEKN
SEQ ID NO: 62	ASKGETGPMVAATLKLGIALLNGNSTVQKMLDYLKEKKDVGGFFQSLAGLMQSCSVLDLAFERQNKAEGLGMVTEEGS-----GEKN
SEQ ID NO: 2	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 128	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 130	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 144	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 146	NMHDAEFTCALFRFIQLTCEGHNLDWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 4	NMHDAEFTCTLFRFIQLTCEGHNLEWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 6	NMHDAEFTCTLFRFIQLTCEGHNLEWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 8	NMHDAEFTCTLFRFIQLTCEGHNLEWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 10	NMHDAEFTCTLFRFIQLTCEGHNLEWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 56	NMHDAEFTCTLFRFIQLTCEGHNLEWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 57	NMHDAEFTCTLFRFIQLTCEGHNLEWQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 58	NMHDADFTCSLFRFLQLLCEGHNLEFQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 59	NMHDADFTCSLFRFLQLLCEGHNLEFQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 60	VLQDDEFTCDLFRFLQLLCEGHNLEFQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 61	VLQDDEFTCDLFRFLQLLCEGHNLEFQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN
SEQ ID NO: 62	VLQDDEFTCDLFRFLQLLCEGHNLEFQNYLRTQAGNTTNNVVICITVDYLLRLQESIMDFYWHYSSKELIDPAGKANFFKAIGVASQVFN

FIGURE 1AA

SEQ ID NO: 2	AVLLTNLSEHMPNEPRLARFLETAGSVLDYFEPFLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDREKLE
SEQ ID NO: 128	AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 130	AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 144	AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 146	AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 4	AVLLTNLSEHMPNEPRLTRFLETASSVLNYFQPFLLGRIEILGGSKRIERVVFEIKESNIEQWLKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 6	AVLLTNLSEHMPNEPRLTRFLETASSVLNYFQPFLLGRIEILGGSKRIERVVFEIKESNIEQWLKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 8	AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 10	AVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEILGGSKRIERVVFEIKDSNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 56	AVLLTNLSEHMPNEPRLARFLETAGSVLNYFESFLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 57	AVLLTNLSEHMPNEPRLARFLETAGSVLNYFESFLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 58	AVLLVNLKEHITNDPRLEKIEKAQTLLEYFDPFLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 59	AVLLTNLNDHMPGERLRLERFLLQAESLLTYFEPYLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 60	AVLLTNLSEHMPNDTRLQTFLELAESVLNYFQPFLLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 61	AVLLTNLSEHMPNETRLQTFLELAESVLNYFQPFLLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE
SEQ ID NO: 62	AVLLTNLSEHMPNDTRLQTFLELAESVLNYFQPFLLGRIEIMGGSKRIERVVFEIKESNIEQWEKPOIKESKRAFFYSIVTE-GGDKEKLE

SEQ ID NO: 2	AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDGDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO: 128	AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDDDDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO: 130	AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDDDDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO: 144	AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDDDDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO: 146	AFVNFCEDAIFEMTHASGLMAASEES-VGGTKNREASYM-YMGDDDDDERAGKDPFRRGLQSVKDG VATAFSSLSPSNIKAKIADMQQMPP
SEQ ID NO: 4	AFVNFCEDAIFEMQHAGSLMAVDDGSGIGGKSRKTSYT-YLADDEENKTAADPIRRGIQAIKYGFHLLFFVLSPNTNKNKINEIQQMSV
SEQ ID NO: 6	AFVNFCEDAIFEMQHAGSLMAVDDGSGIGGKSRKTSYT-YLADDEENKTAADPIRRGIQAIKYGFHLLFFVLSPNTNKNKINEIQQMSF
SEQ ID NO: 8	AFVNFCEDAIFEMTHASGLMSVDDDSGGGGK---AAYT-YISEEDEEKNAKADPIRRTIQAFKDAIYFILTMLSPTNKNKINEMQQMSV
SEQ ID NO: 10	AFVNFCEDAIFEMTHASGLMATDDG---GGNVKRDYAYSSYMESEEEEEERAAADPIRRTIITAVKEGLKFGVHMLSPANIKHQIGVMQTKSI
SEQ ID NO: 56	AFVNFCEDAIFEMTHASGLMATDDG---GGNVKRDYAYSSYMESEEEEEERAAADPIRRTIITAVKEGLKFGVHMLSPANIKHQIGVMQTKSI
SEQ ID NO: 57	AFVNFCEDAIFEMTHASGLMASDDD---GGTVRRDQAFYI-YSIEEEEEERAAADPIKRTIQAVKDGSLYSYMYMISPSNIKHQITVLQSKSF
SEQ ID NO: 58	AFVNFCEDAIFEMQHAAAISGGSDS---TKMERAIKQDYFLQOTSADHISSETKSGYNYGISAASALSPQNIISTTMRNVSSSVRQMSW
SEQ ID NO: 59	DFVNFCEDTIFEMQHATSISDTSGLNE-PEVFMSSILTFGASRDSNNWLVLMVRGMRPSNICRLMGDFSSSQNYNIQIRSLSLFRLFFGV
SEQ ID NO: 60	LFVNFCEDTIFEMQLAQAQISESDLINE-RLANKHESEKERPEEQAPRMGPFSLTIQSFALFALRYNVLTLVRMLSLKSLKKQMKRMKKWTV
SEQ ID NO: 61	LFVNFCEDTIFEMQLAQAQISESDLINE-RSANKHESEKERPEEQGPKMGPFSLTVRSALFALRYNLTLMRMLSLKSLKKQMKMKWTV
SEQ ID NO: 62	LFVNFCEDTIFEMQLAQAQISESDLINE-RSANKHESEKERPEEQGPRMAFFSILTVRSALFALRYNLTLMRMLSLKSLKKQMKMKWTV

FIGURE 1BB

SEQ ID NO: 2	ABELAVGFFKMFYFYLGYGLVGVVVRVYIFGVLLGLMRGPQTDEPPPEPTEEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 128	ABELAVGFFKMFYFYLGYGLVGVVVRVYIFGVLLGLMRGPQTDEPPPEPTEEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 130	ABELAVGFFKMFYFYLGYGLVGVVVRVYIFGVLLGLMRGPQTDEPPPEPTEEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 144	ABELAVGFFKMFYFYLGYGLVGVVVRVYIFGVLLGLMRGPQTDEPPPEPTEEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 146	ABELAVGFFKMFYFYLGYGLVGVVVRVYIFGVLLGLMRGPQTDEPPPEPTEEEKIG-----QLRHRLLATQSSR-----HLPALPPA
SEQ ID NO: 4	IELITSFFKLWFYLIIFYTGYSGVVLRYISRILMQLMSTQSEETTVVVVEEK-----SGSFR-----MLPALPSS
SEQ ID NO: 6	VELITSFFKLWFYLIIFYTGYSGVVLRYISRILMQLMSTQSEETTVVVVEEK-----AGSFR-----MLPALPSS
SEQ ID NO: 8	PELVVGFKKIFFYMFYSGFSVVLRYFGRILMTLMRGPQTEEPVAVCKEDEI-----MGPIR-----ALPPPPPD
SEQ ID NO: 10	PELIVGFFKLIIFYIIFYTGYAHFCVVRVYIFGILLNMRGPAEQ-----EEEPVVEET-----FGR-----ALPPLSLE
SEQ ID NO: 56	PELIVGFFKLIIFYIIFYTGYAHFCVVRVYIFGILLNMRGPAEQ-----EEEPVVEET-----FGR-----ALPPLPLE
SEQ ID NO: 57	PELIVGFFKMIFYAFYVYSGFVSVVWIKYLVNIMLSLMRGAQE-----EEPIPEAEP-----SLR-----ALPPLPLE
SEQ ID NO: 58	TQLLYAVIILFIRAGLAIGWAGYLLMTIFRFGYFLTTSSEEEAARQEKQAKMN-----N-----EHPSFN-----PPIIQE
SEQ ID NO: 59	KLIFLGVFKLKFKAFAFIVGKLIG-LLVGTIRILEDAREITGSIKSLHVPVRRQT-----SSINVPGYGMP SARNTSFQWYLTQYFT
SEQ ID NO: 60	KDMVLAFSSYSWVFTLLHFFVASVCRGFFRIVSSLLGGSLVEGAKKIKVAELLANMPDPTQDEVRGDEEGERK-----PLESALPSEDLT
SEQ ID NO: 61	KDMVTAFSSYSWIFMTLLHFFVASVFRGFFRIVCSLLGGSLVEGAKKIKVAELLANMPDPTQDEVRGDGEGERK-----PMETTLPSEDLT
SEQ ID NO: 62	KDMVTAFSSYSWIFMTLLHFFVASVFRGFFRIICSLLLGGSLVEGAKKIKVAELLANMPDPTQDEVRGDGEGERK-----PLEAALPSEDLT
SEQ ID NO: 2	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPDESADHTEE-----QRPPSLIDLLGGEQAKK
SEQ ID NO: 128	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPDESADHTEE-----QRPPSLIDLLGGEQAKK
SEQ ID NO: 130	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPDESADHTEE-----QRPPSLIDLLGGEQAKK
SEQ ID NO: 144	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPDESADHTEE-----QRPPSLIDLLGGEQAKK
SEQ ID NO: 146	DDTGQMVSFAFGLDITKEDNGQ-----IQVKPHESPSTSTPSSGGE-AEVSPDESADHTEE-----QRPPSLIDLLGGEQAKK
SEQ ID NO: 4	GIDETPSTLTDSSNMKNKNSGSL-----DSKHLKSTTGD--DKDETS AENHEKEDGVGD-----SELQASFVDLLLVGESARK
SEQ ID NO: 6	GVDEPPSTLIDSSNMKNKNSGAP-----DSKHVKSTTVGD--DKDETSTENHEKEDGVKSE-----DNSELQASFVDLLLVGESARK
SEQ ID NO: 8	NKEASSSSAKODSGQAKPADG-----GATLALTASGE--EHKEGGATEEGAEADGAKPEG--AETTEGTTMTLADLLLGGEAARK
SEQ ID NO: 10	EPPG--TVQAFGLDINKEENG M-----YKVVVHESPAN-----SSMEEGGESSPEDGAAASGELVEGEPHQGPISIVDLLLGGEAARK
SEQ ID NO: 56	EPPG--TVQAFGLDINKEENG M-----YKVVVHESPAN-----SSMEEGGESSPEDGAAASGELVEGEPHQGPISIVDLLLGGEAARK
SEQ ID NO: 57	EPPG--TVQAFGLDINKEENG M-----YKVVVHESPAN-----SSMEEGGESSPEDGAAASGELVEGEPHQGPISIVDLLLGGEAARK
SEQ ID NO: 58	FHSHVGVTAFAFGVGMNADHLN-----VNSLPDFVPERPETPETVLEEKPLN-----QTSPTSPST
SEQ ID NO: 59	NVNSMDTVSAFGIDFLKKGKGGGGGAGGTQYKLRMRKRRLPTPSSSDFDEEMSMNMPHTHTPSEASD-----SSPDSGAMAKNDFMMPD
SEQ ID NO: 60	DLKELTEESDLLSDIFGLDLKREGG-----QYKLIPHNPNAGLSDLMTNVPVPEVQEKQKAKKEE-----KKEKEETKSEPEKAE
SEQ ID NO: 61	DLKELTEESDLLSDIFGLDLKREGG-----QYKLIPHNPNAGLSDLMTNVPVPEVQEKQKAKKEE-----KKEKEETKSEPEKAE
SEQ ID NO: 62	DLKELTEESDLLSDIFGLDLKREGG-----QYKLIPHNPNAGLSDLMTNVPVPEVQEKQKAKKEE-----KKEKEETKSEPEKAE

FIGURE 1CC

SEQ ID NO: 2	QAQERMEAQAQAQAAMSAIEAESKKAQVQ-PAPSALSQVDLSQYTRRAVSFLARNFYNLKVALVLAFCINFVLLFYKVSITLDEGEGE--
SEQ ID NO: 128	QAQERMEAQAQAQAAMSAIEAESKKAQVQ-PAPSALSQVDLSQYTRRAVSFLARNFYNLKVALVLAFCINFVLLFYKVSITLDEGEGE--
SEQ ID NO: 130	QAQERMEAQAQAQAAMSAIEAESKKAQVQ-PAPSALSQVDLSQYTRRAVSFLARNFYNLKVALVLAFCINFVLLFYKVSITLDEGEGE--
SEQ ID NO: 144	QAQERMEAQAQAQAAMSAIEAESKKAQVQ-PAPSALSQVDLSQYTRRAVSFLARNFYNLKVALVLAFCINFVLLFYKVSITLDEGEGE--
SEQ ID NO: 146	QAQERMEAQAQAQAAMSAIEAESKKAQVQ-PAPSALSQVDLSQYTRRAVSFLARNFYNLKVALVLAFCINFVLLFYKVSITLDEGEGE--
SEQ ID NO: 4	DSIAGPEVLAQQQAVMAAVEAEIKQKNSV-ENPSAFSTIDINAYTHRALSFARNFYNLKVALVLAFCINFILLFYKVTTLAEDLSDDG
SEQ ID NO: 6	DSIAGPEVLAQQQAVMAAVEAEIKQKNSV-ENPSAFSTIDINAYTHRALSFARNFYNLKVALVLAFCINFILLFYKVTTLAEDLSDDG
SEQ ID NO: 8	EAVARAEEVAAEQQAAMSAIEAEAKKSSAPQETPAVHQIDFSQYTHRAVSFLARNFYNLKVALVLAFCINFILLFYKVTTLGEDEDDGG
SEQ ID NO: 10	AAQERQEAQAQAQAAMSAIEAEAKKSSAPQETPAVHQIDFSQYTHRAVSFLARNFYNLKVALVLAFCINFILLFYKVTSTFEEDS--
SEQ ID NO: 56	AAQERQEAQAQAQAAMSAIEAEAKKSSAPQETPAVHQIDFSQYTHRAVSFLARNFYNLKVALVLAFCINFILLFYKVTSTFEEDS--
SEQ ID NO: 57	AAQERTEAQAQAQAAMSAIEAEAKKSSAPQETPAVHQIDFSQYTHRAVSFLARNFYNLKVALVLAFCINFILLFYKVTTLGDDEGEG
SEQ ID NO: 58	SPASKAPSIYESIGAPQMVQLQSEADFQQQYEPKIAESNSTKSGSILNMLARNFKTIEKITLYLAFFINVILLFHRVD-----
SEQ ID NO: 59	MSAGRRDSTVFP-SLFLATMPSTQVKEEEEEEPYEPQMNVRVKQTVVSLFARNFYNLIKVALVLAFCINILLFFKVSILTAELEE--
SEQ ID NO: 60	GEDGEKEEKADEKSKQLRLHTRHYGEPEVPSAFWKIIAYQQKLLNYFARNFYNMRMLALFVAFAINFILLFYKVS--TSSVVE--
SEQ ID NO: 61	GEDGEKEEKVKEDKGKQLRLHTRHYGEPEVPSAFWKIIAYQQKLLNYFARNFYNMRMLALFVAFAINFILLFYKVS--TSSVVE--
SEQ ID NO: 62	GEDGEKEEKADEKKGKQLRLHTRHYGEPEVPSAFWKIIAYQQKLLNYFARNFYNMRMLALFVAFAINFILLFYKVS--TSSVVE--
SEQ ID NO: 2	-----GSGLGDI IAGGSGSGAGS-----GSGDGSGETGE--DDDALEVVVHIDEDFFYMEHVIKMAAVLHSIVSLAILIGYYHLKV
SEQ ID NO: 128	-----GSGLGDI IAGGSGSGAGS-----GSGDGSGETGE--DDDALEVVVHIDEDFFYMEHVIKMAAVLHSIVSLAILIGYYHLKV
SEQ ID NO: 130	-----GSGLGDI IAGGSGSGAGS-----GSGDGSGETGE--DDDALEVVVHIDEDFFYMEHVIKMAAVLHSIVSLAILIGYYHLKV
SEQ ID NO: 144	-----GSGLGDI IAGGSGSGAGS-----GSGDGSGETGE--DDDALEVVVHIDEDFFYMEHVIKMAAVLHSIVSLAILIGYYHLKV
SEQ ID NO: 146	-----GSGLGDI IAGGSGSGAGS-----GSGDGSGETGE--DDDALEVVVHIDEDFFYMEHVIKMAAVLHSIVSLAILIGYYHLKV
SEQ ID NO: 4	-----DVKEFALGSAGISNDDID-----DSNSTEMAD--DDGALIELVHVNEDFFYMAHVMRLAALLHSLASLAMLIAYYHLKV
SEQ ID NO: 6	-----DSKOFALGSAGISNDDID-----DSNSTEAD--DDGALIELVHVNEDFFYMAHVMRLAALLHSLASLAMLIAYYHLKV
SEQ ID NO: 8	SGELGGGLAEDLLEELGGSGEGEGGLSG-GISGESGEDSGE--EEDPIELVHVNEDFFYMAHVMKIAAMLHSLVSLAMLIAYYHLKV
SEQ ID NO: 10	-----SAAEELILGSGPGGGADITGSGFGSGDGGSGDGE-MEDEIPELVHVDDEFFYMEHVLRIACLHSLVSLAMLIAYYHLKV
SEQ ID NO: 56	-----SAAEELILGSGPGGGADITGSGFGSGDGGSGDGE-MEDEIPELVHVDDEFFYMEHVLRIACLHSLVSLAMLIAYYHLKV
SEQ ID NO: 57	-----GSGESLMGLSGSLGILETCSGG-GECSGDGEGEDEEPPEKVVHDEFFYMEHVLRIAAIILHSLVSLCMLIAYYHLKV
SEQ ID NO: 58	-----ISHAENAEAAASEGD-----DDEDALESIFFITGMQFPYVEYEITGMMLAQILYIWSVLHSLSTFALLVSFYQLKI
SEQ ID NO: 59	-----VDPYPHPVEILENATSPNG-----ADMAGDEDR--VDDQTEQILINQQFMVLPVQLVLSILHSLVSLMILIAICALKV
SEQ ID NO: 60	-----GKELPTRTSSDTAKVTNS-----LDSSPHR-----I IAVHYVLEESSGYMEPTLRILAILHTIISFFCIIGYYCLKV
SEQ ID NO: 61	-----GKELPSRSTSENAKVTTS-----LDSSSHR-----I IAVHYVLEESSGYMEPTLRILAILHTIISFFCIIGYYCLKV
SEQ ID NO: 62	-----GKELPTRSSSENAKVTTS-----LDSSSHR-----I IAVHYVLEESSGYMEPTLRILAILHTIISFFCIIGYYCLKV

FIGURE 1DD

SEQ ID NO: 2	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSFPVNYWDKFVKKKVRKAKYSETYDFDSISNMLGMEKTSFSAQ
SEQ ID NO: 128	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSFPVNYWDKFVKKKVRKAKYSETYDFDSISNMLGMEKTSFSAQ
SEQ ID NO: 130	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSFPVNYWDKFVKKKVRKAKYSETYDFDSISNMLGMEKTSFSAQ
SEQ ID NO: 144	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSFPVNYWDKFVKKKVRKAKYSETYDFDSISNMLGMEKTSFSAQ
SEQ ID NO: 146	PLAIFKREKEIARKLEFDGLYIAEQPED-----DDLKSHWDKLVISAKSFPVNYWDKFVKKKVRKAKYSETYDFDSISNMLGMEKTSFSAQ
SEQ ID NO: 4	PLAIFKREKEIARRLEFDGLYIVEQPED-----DDIKSHWDKLVISAKSFPVNYWDKFAKKKVRQKYSETYDFDSISNMLGMEKTSFSTQ
SEQ ID NO: 6	PLAIFKREKEIARRLEFDGLYIVEQPED-----DDIKSHWDKLVISAKSFPVNYWDKFAKKKVRQKYSETYDFDSISNMLGMEKTSFSTQ
SEQ ID NO: 8	PLAIFKREKEIARRLEFDGLYIAEQPED-----DDIKSHWDKLVISAKSFPVNYWDKFAKKKVRQKYSETYDFDSISNMLGMEKTSFSSQ
SEQ ID NO: 10	PLAIFKREKEIARRLEFDGLYIAEQPED-----DDFKSHWDKLVISAKSFPVNYWDKFVKKKVRQKYSETYDFDSISNMLGMEKTSFAAQ
SEQ ID NO: 56	PLAIFKREKEIARRLEFDGLYIAEQPED-----DDFKSHWDKLVISAKSFPVNYWDKFVKKKVRQKYSETYDFDSISNMLGMEKTSFAAQ
SEQ ID NO: 57	PLAIFKREKEIARRLEFDGLYIAEQPED-----DDIKSHWDKLVISAKTFFPVNYWDKFVKKKVRQKYSETYDFDSISNMLGMEKTAFAAQ
SEQ ID NO: 58	PLITFKREKEIARKLMFDGCGWITEEDSEELGIVDTFMVYLDRIIVWSAKSPPMVNYWDKFVRRKTRSKFDQVDEETLTSILGEEKMS---T
SEQ ID NO: 59	PLCLFKREKEIARKLEFDGQWITEQPTR-----DDIKGQWDSLAISTVSPVYVYWDKFVKKKLVKKYEDAVGEDKLCAMLGMEIGENPMA
SEQ ID NO: 60	PLVIFKREKEVARKLEFDGLYITEQPS-----DDIKGQWDRLLVINTQSPFNWYWDKFVKKKVMKDYGEFYGRDRISELLGMDKAALDFS
SEQ ID NO: 61	PLVIFKREKEVARKLEFDGLYITEQPS-----DDIKGQWDRLLVINTQSPFNWYWDKFVKKKVMKDYGEFYGRDRISELLGMDKAALDFS
SEQ ID NO: 62	PLVIFKREKEVARKLEFDGLYITEQPS-----DDIKGQWDRLLVINTQSPFNWYWDKFVKKKVMKDYGEFYGRDRISELLGMDKAALDFS
SEQ ID NO: 2	EEEGSKG-----LIHYIINIDWRYQVWK-AGVTITDINSFLYSLWYFSFSVMGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 128	EEEGSKG-----LIHYIINIDWRYQVWK-AGVTITDINSFLYSLWYFSFSVMGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 130	EEEGSKG-----LIHYIINIDWRYQVWK-AGVTITDINSFLYSLWYFSFSVMGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 144	EEEGSKG-----LIHYIINIDWRYQVWK-AGVTITDINSFLYSLWYFSFSVMGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 146	EEEGSKG-----LIHYIINIDWRYQVWK-AGVTITDINSFLYSLWYFSFSVMGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 4	ENEERTG-----LINFVINIDWRYQVWK-AGVTITDINAFLYSLWYFTFSILGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 6	ENEERTG-----LINFVINIDWRYQVWK-AGVTITDINAFLYSLWYFTFSILGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 8	ETEERTG-----LINFVINIDWRYQVWK-AGVTITDINAFLYSLWYFTFSILGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 10	ESEETG-----IFKYIMNIDWRYQVWK-AGVTITDINAFLYSLWYFSFSVMGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 56	ESEETG-----IFKYIMNIDWRYQVWK-AGVTITDINAFLYSLWYFSFSVMGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 57	EANEGGG-----FFHFITNIDWRYQVWK-AGVTITDINSFLYSLWYFSFSVMGNFNN-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 58	DS-----S-YDRYSCWLWIGVILTNQGLYRVGYLLCSACGVFLSPFFYAFHLIDVVLSPFPMKAILQSVTHNLQQLI
SEQ ID NO: 59	GNPTENP--NQGLPSSMLTSLDKXHIWK-CGVIGTDSFLYIAWYLLFSLGLHNP-FFFAAHLLDVAVGFKTLRTILQSVTHNGKQLV
SEQ ID NO: 60	DAREKKPKKDSLSAVLNSIDVKYQMWK-LGVVFTDINSFLYIAWYMTMSVLGHYNN-FFFAAHLLDVAVGFKTLRTILSSVTHNGKQLV
SEQ ID NO: 61	DAREKKPKKDSLSAVLNSIDVKYQMWK-LGVVFTDINSFLYIAWYMTMSVLGHYNN-FFFAAHLLDVAVGFKTLRTILSSVTHNGKQLV
SEQ ID NO: 62	DAREKKPKKDSLSAVLNSIDVKYQMWK-LGVVFTDINSFLYIAWYMTMSVLGHYNN-FFFAAHLLDVAVGFKTLRTILSSVTHNGKQLV

FIGURE 1EE

SEQ ID NO: 2	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 128	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 130	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 144	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 146	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 4	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 6	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 8	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 10	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 56	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 57	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 58	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 59	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 60	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 61	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 62	LTVMLLTIIVYIYTVIAFNFFRKFYVQGED--DEVNRNCHDMLTCFVNLYKGVRAAGGIGDELEPPDGGDDSEVYRIIFDISFFFFIIVI
SEQ ID NO: 2	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 128	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 130	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 144	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 146	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 4	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 6	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 8	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 10	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 56	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 57	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 58	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 59	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 60	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 61	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR
SEQ ID NO: 62	LLAILQGLIIDAFGELRDQLESVKEDMESNCFICGINKDYFDKVPHGFDTHVQREHNLANYMFLLMHLINKPDTTEYTGQETYYVWNMYTQR

FIGURE 1FF

SEQ ID NO:2	CWDFPVGDCFRKQYEDLMGE-----
SEQ ID NO:128	CWDFPVGDCFRKQYEDLMGE-----
SEQ ID NO:130	CWDFPVGDCFRKQYEDLMGE-----
SEQ ID NO:144	CWDFPVGDCFRKQYEDLMGE-----
SEQ ID NO:146	CWDFPVGDCFRKQYEDLMGE-----
SEQ ID NO:4	CWDFPVGDCFRKQYEEELGGGGV-----
SEQ ID NO:6	CWDFPVGDCFRKQYEEELGGGGV-----
SEQ ID NO:8	CWDFPVGDCFRKQYEDELGGGG--
SEQ ID NO:10	SWDFPVGDCFRKQYEDELSGGGGG
SEQ ID NO:56	SWDFPVGDCFRKQYEDELSGGGGG
SEQ ID NO:57	CWDFPVGDCFRKQYEDELGGGGS--
SEQ ID NO:58	DWDFPVGECFVKQYEDQLIQS-----
SEQ ID NO:59	CWDFPVGDCFRKQYDDEQA-----
SEQ ID NO:60	CWDFPAGDCFRKQYEDQLN-----
SEQ ID NO:61	CWDFPAGDCFRKQYEDQLN-----
SEQ ID NO:62	CWDFPAGDCFRKQYEDQLN-----
SEQ ID NO:2	= tobacco budworm
SEQ ID NO:128	= tobacco budworm HV7
SEQ ID NO:130	= tobacco budworm HV2
SEQ ID NO:144	= tobacco budworm HV3
SEQ ID NO:146	= tobacco budworm HV6
SEQ ID NO:4	= green peach aphid
SEQ ID NO:6	= cotton melon aphid
SEQ ID NO:8	= corn plant hopper
SEQ ID NO:10	= fruitfly (DuPont)
SEQ ID NO:56	= fruitfly gil7352471
SEQ ID NO:57	= mosquito gi21301556
SEQ ID NO:58	= nematode gi1871447
SEQ ID NO:59	= sea urchin gi18656155
SEQ ID NO:60	= mouse gi13569850
SEQ ID NO:61	= rabbit gi1245376
SEQ ID NO:62	= human gi4506757

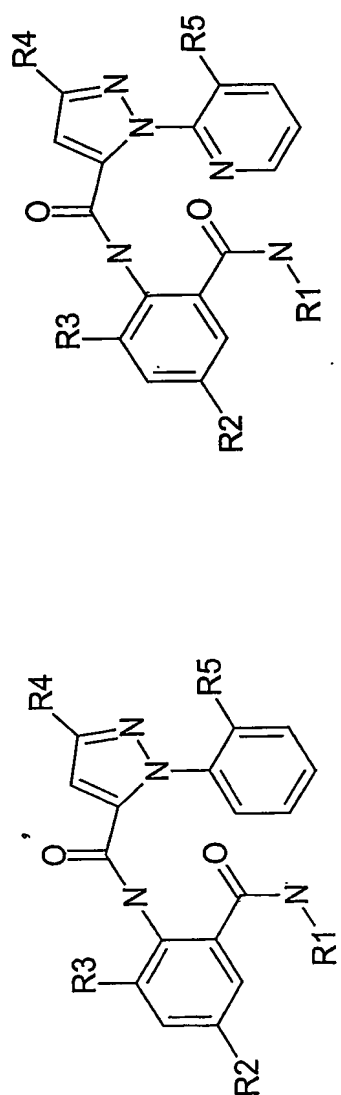
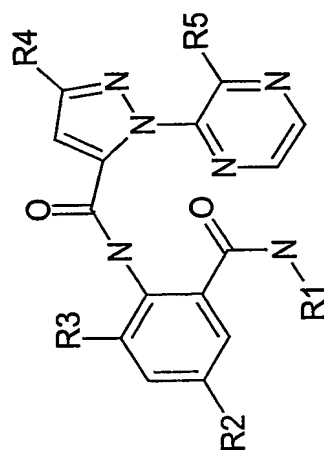
FIGURE 2**Group 1****Group 2****Group 3**

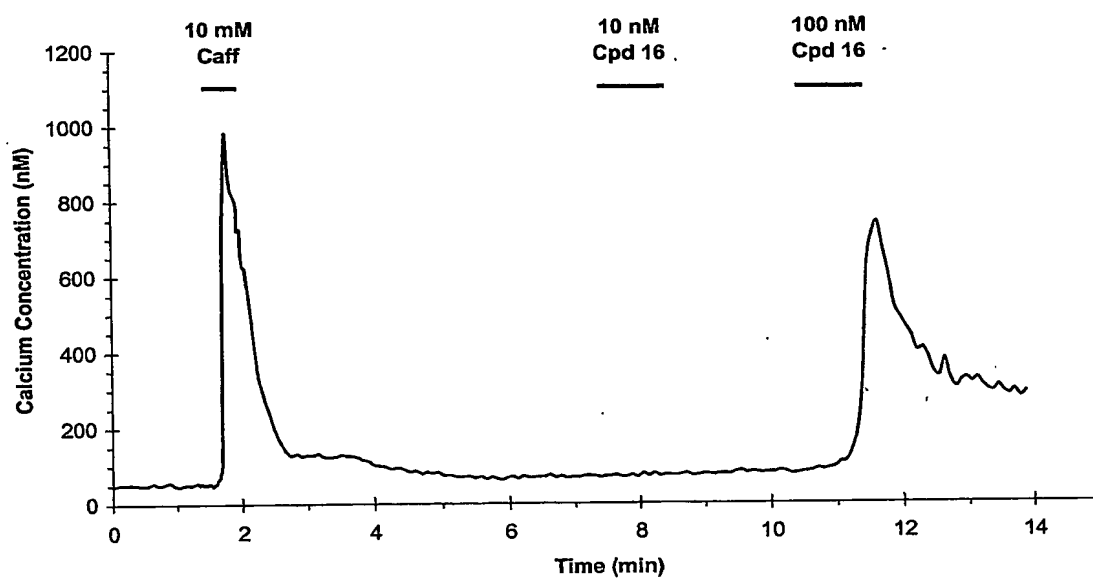
Figure 3

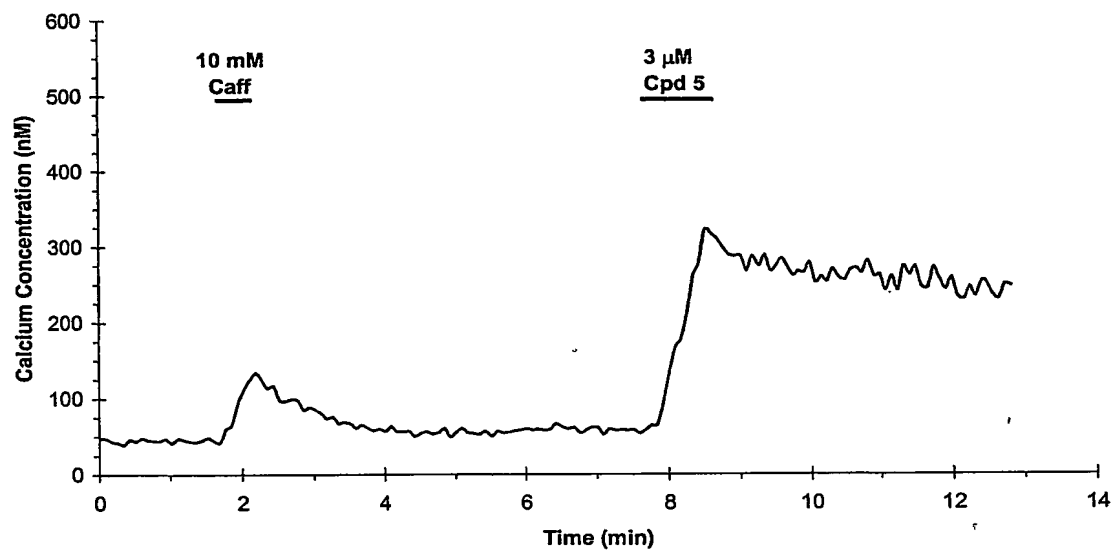
Figure 4

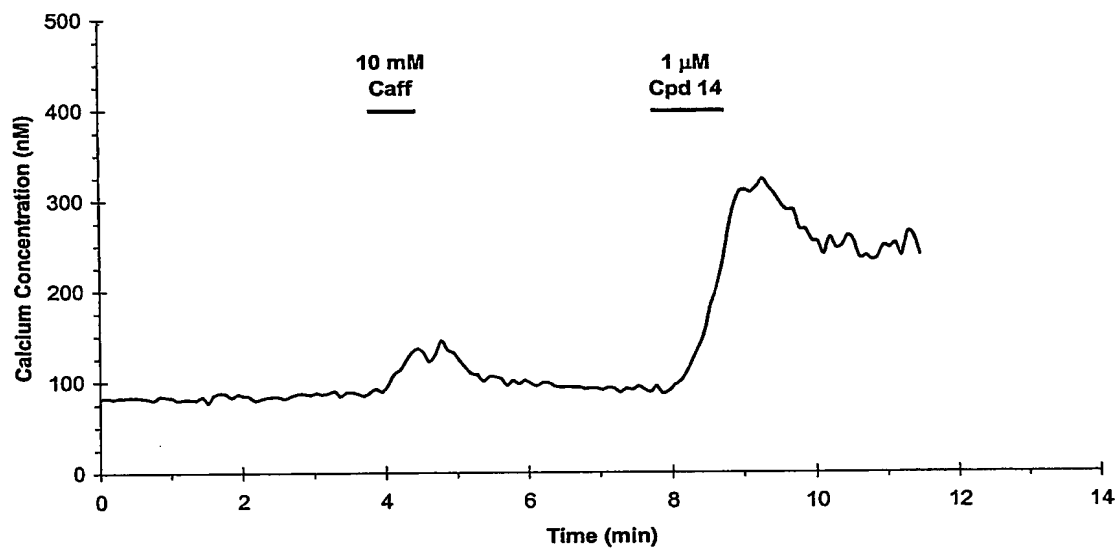
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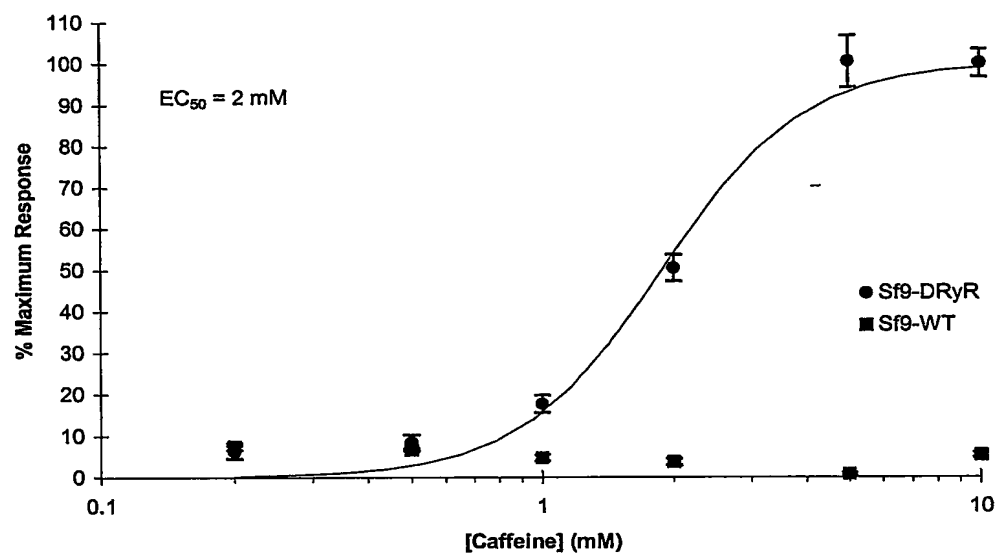
Figure 6

Figure 7

